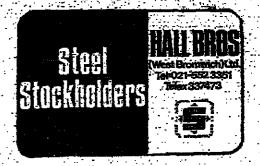
Thursday August 31 1978



CONTINENTAL SELLING PRICES: AUSTRIA Sch 15; BELGIUM Fr 25; DENMARK Rr 3.5; FRANCE Fr 3.0; GERMANY DM 2.0; STALY L 500; NETHERLANDS FI 2.0; NORWAY Kr 2.5; PORTUGAL Esc 20; SPAIN Pt. 40: SWEDEN Kr 3.25; SWITZERLAND Rr 2.0; EIRE 15p

BUSINESS

GENERAL

#### **Equities** UN may slip 2.8; send gold index to save jobs Namibia • EQUITIES attempted a small rally before extending Tuesday's force

UN Security Council will meet today to consider a proposal ny Dr. Kurt Waldheim, secrelary general, that 7.500 troops should be sent to assist Namibia - formerly South West Africa - in its hid for independence.

In a written report to the council, Dr. Waldheim proposes the despatch of troops, plus 1.200 civilian officials and 360 civilian police. Their job would he to maintain law and order and arrange elections.

The move would be the largest by the UN since it became involved in the Congo in the 1960s. Back Page

#### Vaccine queue

Thousands of people flocked to vaccination centres in Birming-ham as police continued their search for two holidaymakers who have been in contact with Birs, Janet Parker, the smallpox victim

Express, set in a Turkish jail, where agreed to cut from the such average agreed to cut from the such average in which arkey is abused. The move diluws protests from Holland's on,000-strong Turkish community.

Back Page: FT aerospace connected with more than 13m and members, said after the meeting that Peugeot Citroen would no doubt say that "the sun will be shough for unions in the engineer-doubt say that "the sun will be shough for unions in the engineer-doubt say that "the sun will be in an international co-ordinating body for unions in the engineer-doubt say that "the sun will be in an international co-ordinating body for unions in the engineer-doubt say that "the sun will be in international co-ordinating body for unions in the engineer-doubt say that "the sun will be in international co-ordinating body for unions in the engineer-doubt say that "the sun will be in the metalworkers' federation members, said after the meeting that Peugeot Citroen would no doubt say that "the sun will be in the region of the workers' hairs will be strength in the French Chrysler and Peugeot-Citroen factories of the workers' hairs will be strength in the French Chrysler and Peugeot-Citroen factories are company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for investment programme at its semiconductor plant at Footscray, the company for international co-ordinating that Peugeot-Citroen semiconductor plant at Footscray, the company for international co-ordinating that Peugeot-Citroen semiconductor plant at Footscray, the company for inter

#### ope's promise

#### .tonehouse plea

The daughter of former MP includes 20 per cent rises for join on Tuesday after hospital treatment, said that joil would kill her father. "I don't think its remaining oil and gas exploration and production interests in Australia in a doal worth should

#### The long wait

#### Briefly . . .

UK residents originating in the New Commonwealth and Pakistan numbered 1.85m in mid-1977. • BTR INDUSTRIES is to raise an increase of 76,000 on the £24.1m by a 1-107-7 rights issue

group of doctors says months to June 30.

transcendental meditation should Page 33 and Lex he available on the National

Murder hant began as fire which

## CHIEF PRICE CHANGES

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	Pearl Assuce 252 - 12
	Racal Electronics 316 - 10
	Rank Org 280 - 10
	Slough Estates 119 - 7
	Sun Alliance 566 - 30
	Turmac
	Cuthric Corn ===== 370 - 10
	Central Pacific 475 — 75 i
	Southern Pacific 195 - 10

# International union bid

BY ALAN PIKE IN GENEVA

Trade union leaders from several countries yester-

day pledged themselves to international pressure—

"including industrial action"—if the proposed Peugeot-Citroen takeover of Chrysler's European

No. 27,650

rally before extending Tuesday downturn. FT 30-share index, up 0.8 carlier, finished 2.8 down at 503.0. Gold Mines Index rose 8.0 to 181.6 on a sharp recovery in gold shares following rises in New York.

O GILTS shorts lost to 1, due to upward pressure on U.S interest rates. Government Securities Index edged 0.21 lower to 70.42.

● GOLD rose \$1; to \$206;



ing for Anotoly Karpov, the champion.

\*\*Midnight excess\*\*

\*\*BRITAIN has agreed in principle of a psychologist working for Anotoly Karpov, the champion.

\*\*BRITAIN has agreed in principle of a psychologist working for Anotoly Karpov, the champion with France and Germany, but Industry Secretary Eric Varley is understood to be unwilling to force British Air Mr. Herman Radhan control of the U.S. for support.

British union leaders were plished at the cost of potentially vulnerable plants like the one Government was still in a positive force British Air Mr. Herman Radhan control of the U.S. for support.

British union leaders were plished at the cost of potentially vulnerable plants like the one Government was still in a positive force British Air Mr. Herman Radhan control of the U.S. for support.

British union leaders were plished at the cost of potentially vulnerable plants like the one force British union leaders were plished at the cost of potentially vulnerable plants like the one force p Midnight excess

Eric variey is understood to be unwilling to force British Air Distributors of the film Midnight ways to buy the new A310 Airbus Express, set in a Turkish jail, as an entry condition.

The match variety is understood to be unwilling to force British Air general of the Metalworkers in a strong position to demand the general of the Metalworkers in a strong position to demand which represents the guarantees which the metal unions with more than 13m workers are seeking.

The metalworkers' federation is an international co-ordinating that Penpent-Climpen would on it and international co-ordinating that the metalworkers are seeking.

South-east London.

Page 5

Page 5

MINERS' leaders are to resist inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperienced in central efforts by the TUC to stop their inexperience of previous mergers showed how easily tionable how effective the employees could be made the victims of rationalisation.

The unions are demanding industrial action in support of Chrysler UK that, before considering giving workers getting work which approval to the takeover, the British, French and Spanish France.

Four guidelines from 9,000

Local Trial Trial Effective Per cent organisation of manual touched."

The unions, bowever. were workers which the British unions sceptical as experience of previous mergers showed how easily tionable how effective the employees could be made the remaining industrial action in support of Chrysler UK that, before considering giving workers getting work which the British unions sceptical as experience of previous mergers showed how easily tionable how effective the employees could be made the remaining industrial action in support of Chrysler UK that, before considering giving workers which the British unions sceptical as experience of previous mergers showed how easily tionable how effective the employees could be made the remaining industrial action in support of Chrysler UK that, before considering giving work workers which the science and it is questions. Four guidelines from 9,000 atomic power workers in State-

strain," said Jane Stonehouse, 29. Australia, in a deal worth about £20.8m, to a group headed by Bond Corporation Holdings and

Endeavour Resources.

at 285p a share. Page 33 and Lex Baroness Tweedsmuir, who died BOC pre-tax profits fell to in March, left £169,358 gross f48.8m (£60.4m) on group sales (£167,367 net).

 PEARL Assurance general branch first-half taxable loss increased to £1.17m (£220,000). killed two men in Tottenham, Exceptional growth occurred in London, was found to be arson. ordinary branch new premiums.

> European news ..... American news ..... Overseas news ..... Home news-general ...... 5, 10 National Enterprise Board's Economic Viewpoint: The \$ no time for despair ..... 31

Covernments must not only

BY DAVID LASCELLES

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An object lesson for entre-preneurs

ANNUAL STATEMENTS



# Prime rates up \( \frac{1}{4} \%

The Continental unions gave
The federation last night sent strong support to the Amalgatelegrams to Peugeot Citroen and mated Union of Engineering
Chrysler managements demanding an early meeting. They also
Government representation in intend to ask the EEC Commission to investigate the implications of the continental unions gave
banks' costs of obtaining funds since the last prime-rate increase
increase
on June 30.

Since then, the economy's most important short-term interest rate on uncommitted bank reserves—the Fed funds rate—
the continental unions gave
banks' costs of obtaining funds
since the last prime-rate increase
increase
on June 30.

Board, acknowledged today that steel importers charging prices "Tils might make them vulner fiscal and monetary policy had failed to reduce the U.S. inflation rate, which was now "in the S per cent area." He gave warning that inflation would continue to accelerate unless further action was taken and he returned to his advocacy of a tax-based policy to offer incentives to labour and management to curb wage and prices and most efficient to curb wage and prices and inflation which have been judged to be so at this time, but it was telling in dollar terms, following the the hwite House that some levels, but was more concerned to prevent injury to the domestic steel companies," he at tax-based policy to offer incentives to labour and management to curb wage and price increases.

Under the tregger-prices system, at tax value "Tils might make them vulner whether these inevers able to anti-dumping suits from domestic steel companies," he admit the to said.

Mr. Harry Holiday, president and that inventories did not company wanted to go on honour high levels.

Treasury officials now doubt to avoid using anti-dumping laws had not committed itself to reducing imports to precise in dollar terms, following the the hwite House that some levels, but was more concerned to prevent injury to the domestic steel companies," he domestic steel companies, "he domestic steel companies," he domestic steel companies, "he domestic steel companies," he domestic steel companies, "he domestic steel companies, "he domestic steel companies," he domestic steel companies, "he domestic steel companies," he domestic steel companies, "he domestic steel companies, "he domestic steel companies," he domestic steel companies, "he domestic steel companies, "h

He admitted that such a policy would be difficult to administe

does not compare with the 100 per cent organisation of manual workers which the British unions					
have achieved and it is ques- tionable how effective the					
French union leaders would be in demanding industrial action in support of Chrysler UK		Aug. 30	Previous		
workers getting work which would otherwise be done in France.	3 months	0.63-0.47 dis	1.29.1.16.4%		

Long-haul flights out of London
Heathrow faced delays up to
nine hours as the effects of the
French air traffic controllers' group, has taken the 237,000 sq
dispute continued. One flight for Corfu finally left Glasgow after
a 25-hour delay.

Endeavour Resources.

Back Page

FUIDENCE THAT Bank of wrest from Bank of America a were inadequate. These should America, a major shareholder in credit report it prepared on the increased by almost six times the London-based Bank of Credit BCCI Holdings (Luxembourg) to \$17m.

America, a major shareholder in credit report it prepared on the increased by almost six times and Commerce International, SA, the parent company, last was critical of BCCI's manage-autumn which it expects will ment and loan policies—support its case that BCCI is practice of making substantial including loan loss provisions—not competent to run an has been presented to a U.S. American bank.

BCCI had engaged in the practice of making substantial including loan loss provisions—not competent to run an has been presented to a U.S. American bank.

BCCI's reali estate loan port-tourn.

BCCI's reali estate loan port-tourn.

including loan loss provisions—has been presented to a U.S. American bank.

This provides a new clue to Bank of America's reasons for its decision announced previously to reduce and eventually sell off its BCCI shareholding.

The evidence comes in an affadavit filed with the district court in Washington by Mr. Douglas Kraus, a lawyer acting for Financial General Bankshares, the bank holding company which is trying to fight.

The devidence comes in an affadavit filed with the district court in Washington by Mr. However, Mr. Kraus saw it for long enough to retain its main company which is trying to fight.

The devidence comes in an affadavit filed with the district it contained confidential information.

However, Mr. Kraus saw it for long enough to retain its main excess of \$5m.

company which is trying to fight points, which he lists in his excess of \$5m.

off a takeover by BCCL affadavit as follows:

The affadavit supports 

BCCI's loan loss reserves of Financial General's attempt to approximately \$3m (£1,54m)

Continued on Back Page

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elting up your own print- ing shop	Algerian development: Focus on hinterland

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# China and Hong Kong in joint property deal

BY ANTHONY ROWLEY

venture will be through two com-panies, the Kiu Kwong Invest-ment Corporation and the Sun

Schools

CHINA is to be the majority man of both Hongkong Land and partner in a joint property Jardine.

The development venture in the New Territories of Hong Kong, worth more than £100m.

The deal, which involves the Hong Kong Land Company and Jardine, Matheson and Co., is the latest, and in some ways the most significant of a series of capitalist ventures in which China has become involved here recently.

Because the deal is long-term, it is seen as an indication that Peking is ready to see Hong Kong remain as a British colony well past the expiry date of Britain's lease on the colony, which expires in 1997.

China's interest in the new venture will be through two com-

Nanyang Commercial Bank, both China-controlled entities, are to

The International Metalworkers Federation decided to be safeguarded but ensure "by lembark on an unprecedented campaign to protect workers measures it necessary" that can be effects of a cross-border company takeorer.

Union leaders see the ramification of the Chrysler decision to pull out of Europe and the sun fine contrary, Chrysler plants in the without strict guarantees to influence the activities of multi-national companies.

The development will be the provide 100 per cent financial first in the New Territories; are to operation between two of the which Hong Kong Land has been kilu Kwong.

The development will be the provide 100 per cent financial first in the New Territories in guarantees for Sim Company and which Hong Kong Land has been kilu Kwong.

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The development will be the provide 100 per cent financial first in the New Territories in guarantees for Sim Company and which Hong Kong Land has been kilu Kwong.

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The complex vall include two schools a chema into the complex vall include two schools a chema and parking.

The total and corporate Interests to the complex vall include two schools a chema and corporate interests or the compount of the complex vall include two schools a

# U.S. steel groups protest Sithole adarnant Er. Nidahainisi Sithole, one of the fare black members of the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the communer's choice of the proposed takeover with, they can be started to the proposed takeover of the proposed to the proposed to the proposed takeover of the proposed takeover of the proposed takeover of the proposed takeover of the proposed to the

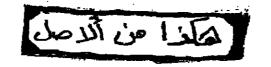
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## U.S. court will try **Tempelhof** hijacker

By Leslie Collit

AN EAST GERMAN who histacked a Poliths airliner to histacked a Poliths airliner to west Berlin's Tempelhof Airport to day faces trial by a U.S. court in Berlin. Tempelhof is a U.S. Air Force bas ein the American sector of the city.

The hijacker is likely to be given a stiff prison sentence, as time to operation committees the definite link between ing to the Visas long been advocating tought international measures ingreed on joint action last month against any country that harboured hijackers by a carriagion of the French delay in agreed on joint action last mounts against the offence. The U.S. and the tought against any country that harboured hijackers by a carriagion of the tree of the French delay in against the offence. The U.S. and single of the first of the French delay in against the offence of the city.

An offer to split the Bendix Control of the city.

Licas French component maker of the city of the definite link between ing to buy from the Bendix Control of the city.

Licas French component maker of the city of the definite link between of the city of the city of the city of the definite link between of the city of the definite link between the stable is a definite link between the stable as the maximum to which hard a stake as the maximum to which hard a stake it of conceded only a 25½ per cent to the French to go of the city of the cit Germans who hijacked a Polish airliner to the city, and a British court tried a West Berliner who shot a Soviet guard at the Russian war memorial in West

West German officials are relieved that the aircraft involved in the latest incident landed in Allied controlled West Berlin and not West Germany. The Bonn Government has come The Bonn Government has come under beavy criticism from Czechoslovakia for refusing to extradite Czech citizens who hijacked airliners to West Gerbinshave warned of the dangers of the rejection by trade unions of Government plans for spend-

The bijacked Soviet-built TU134 of Polish Alrlines took off
from Warsaw and after a stop
at Gdansk on the Baltic was due
at Shoenefeld Airport, just outside East Berlin. Instead it
landed an hour later at
Tempelhof.

The hijacker. whose name is
being withheld by the U.S.
authorities. is said to be in his
authorities. He drew a pistol and
threatened to kill a stewardess
unless the pilot changed course
to Tempelhof.

The man was first off the
plane when it landed together

The hijacked Soviet-built TU134 of Polish Alrlines took off
from Warsaw and after a stop
attention by trade unions
of Government plans for spending cuts.

The visit completes the round
of formal and informal discussions on the future of the former
Spanish
The visit completes the round
of formal and informal discussions on the future of the former
spanish colony that the Mauritanian Government initiated a
mouth ago with all the major
parties connected with the issue.
This initiatives, which has been
encouraged by France and well
received by Algeria, has come up against strong resistance from
solution more difficult.

The precarious situation of
the programme would only make a
solution more difficult.

The man was first off the
plane when it landed together

waiting police. Seven other East Germans have chosen to stay in West Berlin, and are being housed at a refugee camp. The remainder of the passengers, problems facing Holland. The remainder of the passengers, problems facing Holland. The mostly East Germans, have been unions themselves have put forreturned to East Berlin. ward no alt Reuter adds from Stockholm: NCW said.

Commenting on the unions' rejection of the plan to restrict A Croatian nationalist lawyer A Croatian nationalist lawyer sought by Yugoslavia on terrorism charges has fied West Germany and asked for political asylum in Sweden. Mr. Damir Petric, aged 29, is one of eight Croatians whose extradition from West Germany was requested by Belgrade after Yugoslav police seized four suspected West Germany arban guerrillas earlier this year.

In an interview with a Swedish newspaper today Petric said be was vice-chairman of the Croatian student organisation. He dismissed Yugoslav allegations of criminal activities as absurd.

Commenting on the unions' rejection of the plan to restrict rejection of the plan to restrict the rise in public sector solaries and social security benefits, the NCW said that without curbs these salaries and benefits would other agricultural workers in the Cadiz region of Southern Spain for unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of Andulucia by offerous ease unemployment throughout the region of the Cadiz re

Fix vertex. Figs. published daily except Sundays and buildlys. U.S. subscriptions \$205.00 interests would harm effort fair freight) \$365.00 int daily per annum, achieve economic recovery.

DUCELLIER TAKEOVER BID

# Lucas urges link with Peugeot-Chrysler deal

THE LUCAS motor component of a joint home parish in the Auvergne) concern has seized on the projudge what weight it should give French component industry of electrical components concern and develop French exports.

posed takeover of the European the affair in assessing its own international dimensions. Ferodo takeover of the European the affair in assessing its own international dimensions. Ferodo itself is apparently interests of peace and harmony, large electrical components concern and develop French exports.

The British company is in a difficult situation. In the fears that if Ducellier joes to Lucas it will become the man authorise its seven-month-old raised the Lucas problem with big European groups of Lucas and Lucas it will become the man authorise its seven-month-old raised the Lucas problem with big European groups of Lucas and Lucas it will become the man authorise its seven-month-old raised the Lucas problem with big European groups of Lucas and develop French exports.

The British company is in a difficult situation. In the fears that if Ducellier joes to Lucas it will become the man authorise its seven-month-old raised the Lucas problem with big European groups of Lucas and Lucas and develop French exports.

The British company is in a difficult situation. In the fears that if Ducellier joes to Lucas it will become the man authorise its seven-month-old raised the Lucas problem with the Auvergne)

The British company is in a difficult situation. In the fears that it should control in the middle between he two forms of the fears that it should control in the fears that it should control in the middle between he two forms of the fears that it should control in the fears that it sh

authorities will not return the hijacker to East Germany.
In 1969 a French court in West German to SEV brings together a number SEV.

West German concern Bosch.

SEV brings together a number SEV.

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French interests over the fate of SEV brings togethe

**Dutch** warned

spending cuts

ward no alternative solution, the

of need for

BERLIN, August 30,
AN EAST GERMAN who hijacked a Polish airliner to West Berlin's Tempelhof Airport to Berlin. Tempelhof is a U.S. Air Force bas ein the American while the British Government to the French Government to project to acquire the 51 per cent their opposite numbers in the stake it does not already own in Anglo-French industrial co-posite numbers in the stake it does not already own in Anglo-French industrial co-posite numbers in the stake it does not already own in Anglo-French industrial co-posite numbers in the stake it is prepared to go.

While the British officials have already in the middle between he two 50 per cent of Ducellier, but the European groups of Lucas describes its willingness to concede only a 25½ per cent the Giscard d'Estaing-Callaghan the Giscard d'Estaing-Callaghan already made a series of concede only a 25½ per cent opposite numbers in the middle between he two 50 per cent of Ducellier, but the European groups of Lucas describes its willingness to concede only a 25½ per cent opposite numbers in the find Bosch.

In an attempt to reach a compromise with Ferrodo, Lucas has it is prepared to go.

Lucas insists that the acquisition of Ducellier, but the find between he two 50 per cent of Ducellier, but the European groups of Lucas describes its willingness to concede only a 25½ per cent the Giscard d'Estaing-Callaghan it is prepared to go.

Lucas insists that the acquisition of Ducellier is vital to concede only a 25½ per cent the Giscard d'Estaing-Callaghan it is prepared to go.

Lucas insists that the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Ducellier, but the middle between he two 50 per cent of Duc

conflict in the former Spanish

BY OUR OWN CORRESPONDENT

Mauritanian minister in Madrid

THE MAURITANIAN Foreign tanians tentatively suggested an weakened the chances for a nego Minister, Mr. Ould Mohammed initial compromise whereby Politizated settlement. But the Mauri-Laghdaf, begins a three-day visit sarlo be allowed to contro that tanian Government is understood here today as part of the new part of the former Spanish to be pressing hard for a nego-Mauritanian Government's colony at present in Mauritanian

At the same time, President

THE MAIN trade unions have than 16 per cent of the active months, Cadiz has been the

decided to call a strike of all population.

scene of several violent clashes agricultural workers in the The Government decided on between unemployed and the

unemployment in the area and

(£38,500) is now needed each defend. That defence is not possible when weakness of public

Other parts of Andalucia are but apparently co-ordinated almost as seriously affected by attacks across northern Spain. unemployment. In the Granada The extremist group GRAPO

region, for instance, there are has claimed responsibility for 20,000 unemployed agricultural two of the murders, and police workers of whom only 9,000 are suspect that ETA, the Basque

covered by public works special separatist group, was responsible employment. In the past six for the others.

MEDIUM TERM LOANS

This amouncement appears as a matter of record only. August 1978.

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SIME DARBY HOLDINGS LIMITED

MEDIUM TERM LOANS

Mauritanian Government's colony at present in Mauritanian efforts to achieve an end to the hands.

tiaited settlement. The Manri-tanians are said to feel that their

the application of obvious British pressure. But at the PRIME

#### Conservatives denounce

da Costa team By Jimmy Burns

LISBON, August 38, PORTUGAL'S Conservative Party (CDS), whose disagree-ment with the Socialists led to the collapse of the Soares Government last month, today criticised Sr. Alfredo Nobre da Costa, the new Prime Minis-

A party statement issued after the swearing in of the new Government by President Ramalho Eanes confirmed that the fate of Sr. da Costa and his team remains in the balance.

Only last week the Conserva-

incompatible with democracy.

The Socialists have already declared their aversion to an administration of political indepecdents and technocrats Against this background of

# Minister, said that support for workers in the Cadiz region who day. Agriculture are (120 only 15 now needed each possible when weakness of public day. The strike is intended not only powers and contempt for the law reach levels now current in to draw Government attention to reach levels now current in obtain more funds but to per-suade the authorities that the was seen as a retort to the killing scheme should cover employ last Monday of two policemen ment for a six-day week and in and two members of the para-clude those under 18 years old, military Civil Guard in separate Other parts of Andalucia are but apparently coordinated

A bomb exploded yesterday outside the entrance to Rome's main anti-fascist war memorial, the Fosse Ardentine caves, where German troops shot 335 Italians in a reprisal killing in 1944, Reuter reported. The

tives were the first to warm to Sr. da Costa's nomination. Now they accuse him of having formed a Government to the left of the Socialist Party. The Conservatives, who were absent from yesterday's swearing-in, regard three new ministers as pro-Communist: Sr. Carlos Correia Gago, the Foreign Minister, Sr. Antonio Costa Leal, Strike called over Cadiz jobless the Labour Minister, and Sr. Acacio Pereira Magro, Social Affairs Minister.

The conservatives are also angered by a statement vester-day by Sr. da Costa indicating that his Government, far from acting as a stop-gap Adminis-tration, was prepared to carry out major policy decisions. The

conservatives say the "absolute and limitless" character assumed by the new Cabinet is:

discontent, Sr da Costa has less than two weeks before he has to present his Government's programme to Parliament

#### Rome bomb blast

heavy iron gates to the caves were badly damaged in the explosion, but there were no casualties.

# Pay, prices and profits frozen in Denmark \*

BY HILARY BARNES

Greenland.

Mr. Henning Christoffersen deficit to a maximum of DKr 6.5bn (about £6i0m) next economist with no experience of payments of payments deficit to a maximum of DKr 6.5bn (about £6i0m) next year, said Mr. Joergensen, compared with a forecast deficit this year of DKr 7.5bn and DKr 10bn in 1977.

A central role will be played the Economy and Taxation, Mr. A central role will be played by the government policies for reducing the rate of windster said that the coalition will call tribusinster of Commerce, and Mr.

Soegaard as Minister of Detence.
No changes are planned in either wage restraints stick.

No changes are planned in either wage restraints stick.

Mr. Joergensen confirmed that

PRIME MINISTER Anker political stability, against the Joergensen has announced that background of a Parliament in

Vicara

and vio

Market Affairs Committee as Minister of Commerce, and Mr. partite discussions on wages and Minister of Commerce and Mr. partite discussions on wages and Minister incomes prior to the renewal of Agriculture. The Social Democrats retain Mr. Knud Heinesen as Minister more specific measures the Social as Minister of Defence. Government may use to make

No changes are planned in eather defence or foreign policy as a result of the formation of the new coalition.

At a news conference this afternoon, the Prime Minister construction of a distribution stressed the contribution which network for Danish North Sea the coalition can make to natural gas will go shead.

## W. German Cabinet fails to settle payroll tax row

BY ADRIAN DICKS

THE West German Cabinet put are intended to come into force the finishing touches today to the on January 1, 1979.

DM 12.25bn package of stimular ln addition, allowances for old latory measures which it decided age pension contributions will

state governments.

in which the tax cut measures will be presented to Parliament this autumn are likely to run into influential opposition from the Chancellor's own Social Democratic Party in several major states, as well as from the Christian Democratic opposition.

The main features of the state and local authorities for the states will be presented to the states and local authorities to the states and local authorities to the states will be presented to Parliament abolition of the payroll tax by land local authorities for the states and local authorities for the payroll tax by land l

The main features of the

latory measures which it decided age pension contributions will in broad terms at the end of be raised, and child payments July, in compliance with its further increased, on January pledge at the Bonn world i 1980. Part of the overall cost economic summit meeting.

In spite of long hours of discussion, however, Chancellor raising the tax burden appreciably from personal to indirect taxes will be met by crassion, however, Chancellor raising the standard rate of Helmut Schmidt and his colleagues were not able finally to from July 1, 1979.

leagues were not able finally to from July 1, 1979.
resolve the increasingly shrill While most of these providomestic political row over their sions have not been changed plan to abolish the payroll tax from the July 28 original druft, levied on businesses by some the Cabinet and the Finance Ministry have been wracking As a result, the overall Bill their brains to devise a formula in which the tax cut measures that would compensate the states

package, already fixed in July, accept a complex deal to com-are a DM 10.7bn reduction in pensate for the DM3bn hole in personal income tax through their revenues that would be higher basic allowances and left by abolishing the payroll reform of the "tax trap" that tax. The SPD-FDP—governed catches medium income earners, state of North Rhine—

catches medium income earners, state of North Rhine—introduction of a DM 9,000 tax Westphalia, which would be free allowance for family hardest hit by the reform, is support, and increased child however showing no inclination allowances. All these measures to compromise.

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## Bonn spy claim inquiry

BY OUR OWN CORRESPONDENT THE PERSONAL aide to Herr involving the aide, Herr Joachim

BONN, August 30.

THE PERSONAL aide to Herr involving the aide, Herr Joachim Egon Bahr, business manager of Broudre-Groeger. No charges the West German ruling Social Democrat Party (SPD), is under Investigation following allegations of spying in Bonn made by a high-level Romanian report in the newspaper Bild that Mr. Ion Pacepa, a Romanian Government of defector to the West.

An SPD spokesman said today that "vague statements" had been made by the Romanian which could be interpreted as formation to the CIA about espionage activity in Bonn,

### Metal industry wage costs rise

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interests would harm efforts to general level of unemployment achieve economic recovery.

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ASEAMBANKERS MALAYSIA BERHAD

HEXICAN EC COLOGNE, August 30. WAGE COSTS in the West Ger- and high wage costs are harming man metal industry rose by the industry's international com-6.3 per cent in the first half of petitive strength and threatening 6.3 per cent in the first half of this year, against 3.5 per cent a year ago, while productivity rose by only 0.5 per cent in this period, the metal industry employers association Gesamtmetall said.

The association said in a report that unsatisfactory productivity Reuter he o but

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# China may sell crude oil to obtain U.S. equipment

BY DAVID BUCHAN

oil drilling bit plant to the Soviet

CHINA is considering selling exploration Phillips. Exxon. Union and bouring countries, the amounts

oil company, Gulf, had actually the U.S. and U.S. oil majors. been offered a quantity of Chinese crude production Union. That decision followed Chinese crude were today denied. amounted to some 90m tonness A Gulf spokesman said that no last year. Quite apart from sale of a Sperry Univac comsuch offer had been made, growing domestic needs. Peking puter to the Russians. though Peking was known to be is also committed by its agreekeen to increase its oil exports, ment with Japan earlier this and that the company had in year to increasing its sales to fact decided that refining the that country from 65m tonnes for latively heavy Chinese crude last year to 15m tonnes by 1982. Wevertheless, any Chinese crude last year to 15m tonnes by 1982. The Energy Secretary, and Mr. Zbigniew Brzezinski. National Security Adviser, are reported to be urging the White House to reconsider its decision on the oil drilling plant sale by the Texan company. Dresser Industries. oil company, Gulf, had actually the U.S. and U.S. oil majors.

But reports that a fifth U.S. be marginal to the needs of both

## Nicaragua strike spreads and violence intensifies

A NATIONAL strike, initiated in Masaya and Diriamba. Outsiders these arguments. But propo-Nicaragua five days ago in order entering these areas run the risk nents inside the Government of to press General Anastasio of being fired on, and many a ban on the Dresser deal regard some into resigning the families who support the Somoza action as urgent, as Russian

yesterday and to-day showed small bombs.
that many shops had shut down, The strike and widespread the owners of some of them violence in Nicaragua come on having told their employees to the heels of a highly successful number of businessmen are offering workers food or partial remuzeration for the duration of the strike.

The heels of a highly successful the heels of a highly succe

employees in essential sectors political prisoners and \$500,000 and foreign and domestic banks in ransom. to stay on the job.

Most Nicaraguan industrial through various members of the concerns, however, have not yet family since 1933. rode out a joined the strike. If this sector general strike earlier this year, moves to support the anti-Somoza but is currently facing the action, much of the national economy would be shut down.

At the same time, bands of have died in purplet described by the constant of the concerns.

touths wearing masks or hylon overnight into its fourth day, the stockings over their heads patrol town was described as a battle-the streets of the two towns, ground. firing shots or throwing homemade bombs at soldiers and We are still carrying them to police. Exchanges of shots occur their relatives," according to the almost daily between troops and local Red Cross Chief, Sr. anti-Somoza forces in a number Eulogio Reyes, "So far we have of other Nicaraguan towns and moved 10 deed, but there are of other Nicaraguan towns and moved 10 dead, but there are cities, including Jinotepe. Leon, more, as well as wounded."

crude oil as a means of paying equipment it hopes to buy from tration is keen to improve for the purchase of offshore oil one or more U.S. oil companies. relations with Peking, equipment, which it is discuss- But they also pointed out that, ing with four U.S. oil companies. while China had for some time the discontent among some senior. The four companies invited to sold limited quantities of remed discontent among some senior. Peking for talks this summer are petroleum products to neigh-Administration officials about

presidency, is gaining momen-regime have left the area. technicians have now arrived in the scenes in some of these Texas to be briefed by Dresser towns are reminiscent of street Industries on the plant. Although public transport, banks, petrol stations and hotels continue to function, a tour of shopping centres in Managua showed states in machine guns and today showed

the strike.

Reports from the provinces regime, the target of sporadic, indicate that adherence to the anti-government strike is even now, made humiliating concessions. The government, while seek- administration allowed them to ing to play down the protest, has leave the country safely, along obliged government workers, with a group of newly-released

o stay on the job. The Somoza regime, in power Most Nicaraguan industrial through various members of the

At the same time, bands of have died in pitched battles anti-Government protesters in between anti-government demonstrators and the National Guard Esteli have taken control of the in Matagalpa, eye-witnesses said downtown areas and are meeting today. They said that the air only sporadic resistance from force bombed the town yester-Government troops stationed there.

Youths wearing masks or nylon overnight into its fourth day, the stockings over their heads patrol town was described as a battle-

#### Peru emergency declared

Government took another step order and worsen the national towards a confrontation with striking miners today when it peru \$2.5m a day in foreign put five more mining provinces

striking miners today when it put five more mining provinces under a state of emergency.

An official statement issued at the end of a cabinet meeting said that the central Andean provinces of Huanuco, Junin.

Pasco, Huancavelica and 320 union militants fired over the Ayacucho were placed under a state of emergency and constitutional guarantees suspended. Two vately-owned mining concerns other provinces were put under a similar regime last week.

It accused unnamed elements

THE PERUVIAN Military of trying to disrupt law and

#### **MEXICAN ECONOMY**

#### The oil that soothes but also irritates

DESPITE HUGE oil reserves in Mexico the cancers which have eaten away at the economy for years are still afflicting the country.

The shar pincrease in the oil reserve estimates has restored Mexico's international credit rating. Its \$26bn forcign debt rating. Its \$26bn forcign debt scems certain to be whittled down, But, despite the oil-based down, But, despite the oil-based down, But, despite the oil-based to create jobs continues to lag, Mexican workers are raising their wage demands and calling for more and longer strikes, of the strikes are relating growth doses. Mexican Workers, believes that

different picture. The age that success to acceptance by pattern of the population of 64m educated people and express—almost half under 15 years of little hope of convincing the age— is matched only by masses.

countries like Pakistan and AP-DJ

needed to create jobs continues to lag, Mexican workers are raising their wage demands and calling for more and langer strikes, the population growth defies solution, and farm problems persist.

It is becoming clear, in the words of a U.S. State Department economist, that "the problems of Mexico will not be solved by oil, and its major problems may well be worsened by it." Indeed, adds a Commerce Department analyst in Washington. "there is a growing school of thought that oil could be harmful to Mexico now. It provides an excuse, a crutch, not to solve the basic structural problems."

However, Mexico has plenty of oil to sell. Probable reserves are estimated at 31bn harrels and possible reserves at 120bn. Among other things, President José López Portillo is expected to annual state of the nation of il, the government can create new jobs. But sceptics contend that employment is not easily increased by extractive industries like that of petroleum, in which creation of one job requires an investment of some \$100,000. Moreover, feeding Mexico to day is only half the job it will soon become. Already the 10th largest in the world, the Mexican to double by 2,000. This surge—due to a bigh birth rate and a relatively low death rate—is the worst problem, and the one lease of the populace to reproduce, initial official efforts to promote birth control have met with some success in the past couple of years. But most experts credit that success to acceptance by But other comparisons paint a years. But most experts credit

Pressure on U.S. plant

By John Wyles NEW YORK, August 30.

A TEAM from the New York and New Jersey Port Authority is to visit Japan next month in a bid to persuade the Toyota Motor Company to build an assembly plant near Jersey It is not clear why the port President Carter's decision a couple of weeks ago to allow the controversial sale of a \$144m authority is doing so, because Toyota is insisting that it has

principle to manufacture cars in the U.S. A spokesman for the company in Califronia said to-day that Toyota had examined no potential sites in the U.S., nor had it invited the erity to submit proposals. Japanese car prices have cil on U.S.-China Trade said to- their economic contribution to With support also from the day that China was looking at U.S.-China trade — which in any Defence Department, both have various ways, including crude case is expected to show a apparently argued that, on sales, to pay for the offshore marked increase this year — at political grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds that the on security grounds, that the inclusion in the Dresser deal of an ultra-modern \$1m electronic

welder is unwise. There was no indication of how President Carter, now heading back to Washington from his Western holiday, might react to these arguments. But proponents inside the Government of a ball on the Dresser deal regard action as urgent, as Russian technicians have now arrived in

# Toyota for

not even taken a decision in

bility study on the possibility of manufacturing here.

Toyota, on the other hand,

has been more reticent on the

subject although it acknow-

edges that general discussions have been going on within the company for some time.

become increasingly unstable in the U.S., because of the steady appreciation of the yen against the dollar, and many motor industry observers ex-pect Japanese manufacturers eventually to start assembling cars in the U.S. in order to preserve their market here. Honda has taken a decision in Honda has taken a decision in principle to build a plant along-side a motor-cycle assembly plant which it is building in Ohio. Nissan, which is the second largest importer into the U.S., is completing a feasi-

NY newspaper hopes rise

A CLIMMER of hope was cast began which, though rejected by ning by about half. The news on the New York newspaper the pressmen's union, appears to papers claim that overmanning strike by an agreement of the providing some basis for has produced a cost burden publishers and union leaders to the providing some basis for has produced a cost burden publishers and union leaders to the providing some basis for has produced a cost burden publishers and union leaders to the providing some basis for has produced a cost burden publishers and union leaders to the providing some basis for has produced a cost burden publishers and union leaders to the pressmen's union leaders. cortinue talks which began The pressmen's union leader, competing effectively with subur-yesterday.

The pressmen's union leader, competing effectively with subur-Mr. William Kennedy, welcomed ban newspapers in the New York

Carter to lobby for natural gas Bill

A federal mediator, Mr. had been made and said that his Since the stoppage began, four two sides together on several occasions since publication of 15,500 members at the three contracts expired at the end of but hitherto contacts have New York Post stopped work proved increasingly inconsequential. However, the Publishers unflaterally posted reduced manning levels. Itself a Association of New York year contract which would ultimediate the strike first time since the strike mately reduce pressroom man-

## have to decide the issues him-

PRESIDENT CARTER, who left on his vacation 12 days ago sional approval of the gas pricing complex returns here today to call said chances of Senate passing to salvage this key sage of the measure hinged on element in his stalled energy the votes of about two dozen groups and urge them to lobby the same officials, inside the the same of congress on the White House's feeling and the whole thing rests with dent will succeed in persuading it," the official said.

There are doubts, inside the the issue. "There is a big unbehalf."

White House and on Capitol decided segment in the Senate Hill, about whether the President it," the official said.

Tomorrow and on Friday, the Redient will succeed in persuading it," the official said.

Cutting short his Western tives of farm groups and major it was of farm groups and major it was of farm groups and major in the same would deregulate the dent Carter will try to convince natural gas. Bill. The vacation trip by two days, President may meet a group of Governors, as well as representant it was of farm groups and major in the same would deregulate the dent Carter will try to convince natural gas. Bill. Some key vacable price increases in the one of the phone constantly with send one President in the Senate of Senate passing the votes of Senate passon.

There are doubts, inside the the votes of about two dozen groups and urge them to lobby in the issue. "There is a big unbehalf.

Tomorrow and on Friday, the Redient will succeed in persuading it," the official said.

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Cutting short his western tives of farm groups and major it. There is a big unbehalf.

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Tomorrow and on Friday the Resident was a big unbehalf.

Tomorrow and on Friday the Resident was a big unbehalf.

Tomorrow and on Friday the Resident was a big unbehalf.

Tomor

two parties will have 15 days in law to thrash out the main issues of pay and job security. If at the end of 15 days there

Post row

mediator

By Our Own Corresponde

NEW YORK, August 30.

Conciliation Service has named Mr. James Healy, a Harvard professor, to mediate in the postal dispute which is still

THE FEDERAL Mediation and

named

These talks, which were agreed on by both sides to avoid the possibility of a strike, are expected to start by the end of the week.

is still deadlock, Mr. Healey will

Merrili Lynch talks

Merriti Lynch is holding preliminary discussions on acquiring Huntoon Paige, a mortgage hanking and brokerage firm, Reuter reports from New York. If the acquisition is completed, Runtoon Paige would become part of Merrill Lynch Hubbard,

U.S. COMPANY NEWS

Chrysler looks for 10 per cent rise in new car sales; FTC probes Chemetron gases sale; Japanese stake for Data General

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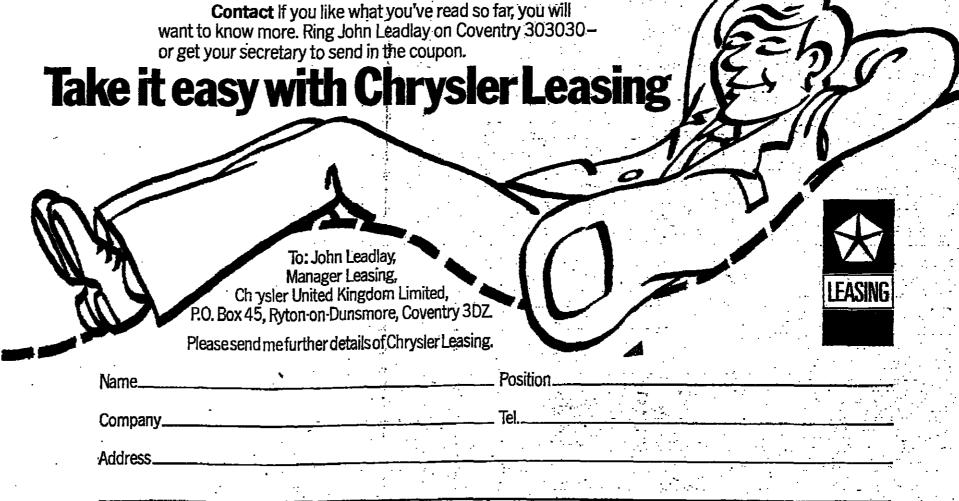
Interchangeable outlets A vehicle supplied through one can be serviced, maintained or substituted at any other.

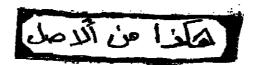
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Finance Chrysler Leasing System dealers can offer the full financial services of Chrysler's own Finance House, Chrysler Acceptances Limited/Chrysler Wholesale Limited, to meet your funding requirements.





THE RHODESIAN nationalist reason for an all-party con- bound to come to an end before leader, the Rev. Ndabaningi ference is to wreck our agree- the year is out asserted that one-man, one-vote leaders who joined with Mr. Ian be forced to attend all-party elections must go ahead before Smith, the Prime Minister, in the talks.

unly one sixth of the estimated is bell." he declared. 3m black voters turned out at Mr. Sithole ducked or ignored guerrilla infimidation. the elections planned for Decem- reporters' questions on how an hother of the black leaders ber, the country would have a election could be held when some in the transitional Government,

Angola and

S. Africa in

PoW swap

Vorster in hospital

Rennies chief fined Mr. Charles Fiddian-Green, chief executive of Rennies Consolidated

Holdings, was fined R10,000 (£5,800) in the Rand Supreme

today declared his ment and we are not prepared to Most observers regard Decem opposition to new all-party wreck our agreement, he said, her elections as an impossibility peace talks on Rhodesia and Mr. Sithole, one of three black and believe that Salisbury will

the end of the year as planned Transitional Government, inin the country's internal settlein the country's internal settlesisted that December elections by Government Ministers in the
ment.

Speaking at a Press conference, Mr. Sithole said that if
ment must be held or else there had to be scrapped because no one turned up. Officials blamed

black majority Government.

Flanked by senior party officials and before 500 cheering supporters. Mr. Sithole took his toughest line yet against the British and U.S. plan for an allparty conference involving Rhodesia's Transitional Government and the Patriotic Front Gaerrilla alliance led by Mr. Joshua Nkomo and Mr. Robert Mugabe.

"We are satisfied that the majority defect of the foreign press of attempting to denigrate the domestic agreement and said be of other local black leaders at recent praise of Mr. Nkowo by Dr. David Owen, Britain's Casefire efforts, Mr. he must crown him not King of wrong. We know the war is Britain," he said.

# Shah faces demand for return of exile

F. Botha. the South African Foreign Minister, John Stewart reports from Cape Town.

The exchange is to take place with the help of the International against the Government by some not cleur was the speed with parts of the Opposition, demand- which demands would build up. Red Cross at a date to be aned Cross at a date to be an ing the return from Iraq of Yesterday's Iranian papers, in-cxiled Shi'ite leader Ayatollah duling in their third successive Khomeini, who is the real and day of de facto Press liberty. Arricast Severi South African Anomeini, who is the real and day of de facto riess mostly-prisoners of war are held in symbolic head of Iran's anti-continued to pour out details of Angola, while publicised information in South Africa indicates that munity. The campaign is partly and religious a handful of Cubans and possibly contacted and partly and religious. tion in South Africa indicates that a handful of Cubans and possibly a large number of Angolan Govorchestrated and partly spon-

ernment troops are being held in South Africa and South-west Africa and South-west Mirica. The prisoners were taken in late 1975 and early 1976 during South Africa's involvement in the Angolan civil war.

Meanwhile, about 1000 refugees trying to escape from fighting between Government forces and Unita rebels in the southern and Contacts. Yesterday's evening Hua today began the first full papers, printed a report with day of his three-day state wisit. tween Government forces and Unita rebels in the southern Angolan town of Calais, were re-ported to be strenged to contacts. Yesterday's evening Hua today began the first full papers printed a report with day of his three-day state visit prominent pictures of the to tran.

Ayatollah, the first to appear in Discussions were held between public in 15 years. They were Chinese and Iranian delegations quickly cut out of the news- and Chairman Hua held a private ported to be stranded on the Angolan side of the Kayange papers and plastered over walls meeting lasting more than ball Mr. John Vorster, South Africa's and windows in the bazaar dis- an hour with the Shab.

Prime Minister, who is 62 is suffering from physical exhaustion trict of Tehran. suffering from physical exhaustion and bronchitis. Reuter reports from Pretoria. He was admitted to the Tygerberg hospital in Cape Town on Tuesday for an annual check-up and will remain in hospital for at least a week.

Titel of Tehran. The delegations are understood to have discussed the assertion that his Government ironing out of details of two would permit political freedoms agreements on cultural and offered in the Iranian constitution, it was predictable that new leaders are believed to have dispositive for at least a week.

South Africa and Angola are to exchange prisoners of war, according to an announcement by Mr. White Clashes between and that demands would be made R. F. Botha, the South African police and demonstrators have for Iran's five ayatollahs (reli-WHILE CLASHES between and that demands would be made continued in towns in Iran. a gious leaders) to take their campaign has been mounted places in Parliament. What was

For a picture of Khomeini to aneous.

appear anywhere in public would
Following reports in Tebran have been unthinkable in the

The delegations are under

## Lebanon deaths inquiry

BY IHSAN HIJAZI

Court, Johannesburg yesterday, A SECURITY drive by Syrian tions with Syrian leaders, for contravening South Africa's troops of the Arab peace-keeping. After his return here Reuter reports. He was convicted on Tuesday.

Kenya rehearsal

A full dress rehearsal was held yesterday for the funeral today.

Section of the funeral today

A full dress rehearsal was held yesterday for the funeral today.

Force in northern Lebanon has munique by the forces command turned into a crisis within a announced that an inquiry is to crisis after an undisclosed number conducted into the murder of soldiers have been six civilians from the Maronite referred to a military commission town of Bsharti in the Cedars of inquiry in connection with the Lebanon area some 70 miles northern Lebanon has munique by the forces command turned into a crisis within a announced that an inquiry is to crisis after an undisclosed number conducted into the murder of soldiers have been six civilians from the Maronite referred to a military commission town of Bsharti in the Cedars of inquiry in connection with the Lebanon area some 70 miles force in northern Lebanon has munique by the forces command at all

A full dress rehearsal was held yesterday for the funeral today of President Jomo Kenyatta of Kenya. Quintin Peel reports from Nairobi. The coffin will be borne from State House to Parliament on the gun carriage used at Sir Winston Churchill's funeral. Contractors have been working every night for a week to complete the mausoleum.

## control in Chinese industry

By John Hoffman

Quality

PEKING, August 30. CONCERN ABOUT the quality of Chinese industrial products has brought a significant organisational change in the nation-wide machinery-building

orders have gone out from the central government's first Ministry of Machine Bui'ding for the rationalisation of factories and production methods to ensure specialisation and efficient co-ordination.

The ministry is responsible for the manufacture of arm machinery and motor vehicles. Provincial authorities throughout China have been told to set up specialised rompanies and consolidate managements, re-group factories according to their products, and raise the technical quality of manufactured goods.

Machinery plants are now Machinery plants are now widely scattered under diffuse management. Most operate inefficiently because they attempt to integrate all processes from forging to partsprocessing and assembly. Competition for materials and markets has led to wasteful production delays, poor quality and high costs.

and high costs.
The industry's reorganisation means that provinces in north-west China will be responsible for building 50-up tractors and northern China centres will manufacture the 55-hp model. Eight co-ordinated motor vehicle plants will be set up and affiliated with nearby factories producing specialised

In Peking, 147 autonomous machinery factories bave been brought together under the city's new machinery industry department. Twenty group companies have been set up 10 co-ordinate supplies and pro-

structure will overcome the growth-stanting effects of excessive "self-reliance" which became China's preoccupation during the "great leap for-ward" of the 1960s. Small, self-contained and inefficient back-street factorics mushroomed all over China.

The official newspaper the People's Daily recently published an account of a commune's disastrous experience

The minister admitted to the

#### ALGERIAN DEVELOPMENT

regulations.

# Focus on hinterland

BY FRANCIS GHILĖS

rently taking stock. The third to Italy and a host of other pro-four-year development plan, due jeets) will remain the highest. A more balanced growth in the start next January, will prob- priorities if only because oil and regional terms will be helped by ably be submitted to the congress gas, until the end of the century, the decentralisation which the of the ruling FLN party when it will be by far Algeria's largest World Bank report says has been meets some time this autumn, hard currency earners. Oil will vigorously pursued, not least in This year—proclaimed a "year remain Algeria's most lucrative the socialist agricultural sector of reflection"—has been devoted export until the early 1980s, and where each farm is now respontor examining the results of the then gas will take over. to examining the results of the then gas will take over.

In industry other than oil and the amount of field, tree and while there is much to be gas, the emphasis will be on vegetable crops it produces).

pass two sections are participal states and any account for me-afth of the majorating and islable to prove short of states in the flagerial is an open question. Imports of non-afth of the important, and islable to prove short of the move for greater stocks, and the same count for me-afth of the important, and islable to prove short of the move for greater exchanges and help must be given to agric and help must

ALGERIAN planners are cur-pipeline under the Mediterranean link Algeria with Niger-and Mali



# WORLD TRADE NEWS

# Japan plans drastic cut in air fares

THE JAPANESE Government far more in real terms than JAL points out that 80 per has to pay Y150,000 for the much has made up its mind to propose tickets for the same journey back cent of its staff are paid in year shorter journey from Tokyo to has made up its mind to propose a "drastic" reduction in international air fares out of Japan bought at the other end, and argues that yen-denominated to Japan bought at the other end, and argues that yen-denominated plant in order to remove anomalies caused by the upvaluation of the yen, according to the director yen, according to the director general of the Economic Planning Agency, Mr. Kiichi Miyazawa.

Mr. Miyazawa told the Diet (Parliament) yesterday that proposals to cut air fares would be who are paying the full fare have and lowering yen denominated in other currencies from Tokyo to London is yen-denominated revenues if it in favour of introducing a system corresponding to the Apex fare on Aliantic routes which would offer 2.35 per costs must be matched against in the following a system corresponding to the director fare is £552.50. At the current admit that changes are needed, of exchange this works out one proposal is to split the difference between fares into and agree to travel on a specific day.

Air travellers who are "in the out of Japan by raising those know" about this situation and denominated in other currencies know" about this situation and lowering yen denominated in interdence in the individual Japanese air into admit that changes are needed, difference between fares into and agree to travel on a specific day.

Air travellers who are "in the out of Japan by raising those know" about this situation and denominated in other currencies simultaneous adjustment in standard air fares out of Japan, the individual Japanese air

(Parliament) yesterday that proposals to cut air fares would be who are paying the full fare have and lowering yen denominated in other currencies simultaneous adjustment in posals to cut air fares would be who are paying the full fare have and lowering yen denominated the proposals in the individual Japanese air traveller may be faced with a this autumn. IATA is likely to because of the savings involved on the proposals since in several of its member airlines have been pressing for agreement Air Lines says that its ticket on a new air fare structure which agents are ready to explain the out of Japan more into line with ask, but the unwary will be told costs in other parts of the world.

Prices of international air JAL which until recently resent converted from the dollar upholding the existing system, rate for the same journey if a estimates that it would lose up ticket is bought outside Japan to 40 per cent of its revenue such ask. The converted from the dollar upholding the existing system, rate for the same journey if a estimates that it would lose up ticket is bought outside Japan to 40 per cent of its revenue such ask. The converted from the dollar upholding the existing system, rate for the same journey if a estimates that it would lose up ticket is bought outside Japan that it would lose up to the Laker Skytrain for However, it must be barne in using an exchange rate of from international passenger that whereas it is now possible system in the region of SI equals Y190 exchange rate to the current this system results in air tickets market rate as the basis for comfort and the converted from the fights if a simple switch were yen-dollar exchange rate is now made from the Y296 to the dollar in the region of SI equals Y190 exchange rate to the current this system results in air tickets market rate as the basis for comfort and the current of the

New Soviet deficit with West

The new China news agency reports that the nation-wide reorganisation of the industry would take from three to five

The change in the industry's

Mr. Chou tze-Chien, the first Minister of Machine First Building, travelled to the commune, near Peking, to deliver his personal apploay. He commune had spent on one of the tractors and promised compeusation for the repair of the others.

(armers that some factories-were producing inferior machines.

THE SOVIET UNION built up a deficit for the first half of 1978 exceed the 1977 deficit, which 2bn rouble (£1.53bn) deficit in rose 43 per cent to 2bn roubles such as three years. It was defined to 1978, according to the Soviet weekly Ekonomiches derived by the 1- posted only a modest R700m kaya Gazeta. This was one of the annual trade results were show that overall, the Soviet in the Soviet weekly Ekonomiches derived by the 1- posted only a modest R700m kaya Gazeta. This was one of the annual trade results were show that overall, the Soviet will be caused it reversed the trend apparently impricit in the Soviet achieve ment of a 230m rouble (£175.6m) surplus in trade with the West was made up to the province this week by the 1977. The figures show that during the last six months of 2977. The figures show that during the first half of this year Soviet will be to go into surplus with the Rrst half of this year Soviet will be to go into surplus with the Soviet trade volume and the Third World.

The figures show that during the first half of this year so that during the first half of this year so that the same time. Soviet will be the same time. Soviet will be the same time. Soviet was the second half of the same time. Soviet was the same time soviet the first half of 1978 from a value of for meat production to the West decreased to grain harvest, the Soviets will be stall of 1978 from a value of for meat production to the first half of 1978 from a value of for meat production the first half of 1978 from a value of feed cattle for meat production the first half of 1978 from a value of for meat production the first half of 1978 from a value of feed cattle for meat production the first half of 1978 from a value of for meat production the first half of 1978 from a value of for meat production the first half of 1978 from a value of for meat production to the first half of 1978 from a value of feed cattle for meat production to the first half of 1978 from a value of for meat production to the first half of 1978 from a va

**UK** recovers ground in France

The result was that the Soviet for 1978 annual deficit to far months of 1977.

The prospects therefore are from 13 per cent in the first six found.

Our Of from D

PARIS, August 30.

# investment

**Drive for** 

per cent in the first half of 1978 push for investment in Northern

from Dublin: The Ridge Tool Company of Ohio, in conjunction with the Industrial Development Authority, is to invest over £10m in a new plant in Cork to manufacture pipe-working Inols and equinment for international

markets. mune's disastrous experience with three tractors it had hought from inefficient factories.

The first tractor worked sporadically for a year before its faulty gearbox failed completely. The second had its cylinder head fitted back-to-per cent in 1977) and if they late into sales of just short of continue at the present rate. Eshin, allowing for a 10 per cent the first time it was started. The third was so badly put together that it never worked at all.

Inttial activities are scheduled to begin in September with full between 1975 and 1977 moved production set for 1982, when some of their lost market share closer to 90 per cent.

British officials are hoping that from £165m to £361m, while the labour force is expected to be tween 1975 and 1977 moved production set for 1982, when some easure by the build-up in sales of crude oil. UK penetration could reach improved to 5.6 per cent (5.2 5.9 per cent, which would transport and the engine seized the first time it was started. The third was so badly put together that it never worked at all. Initial activities are scheduled

some E343m better than last year. a fairly negligible £10m in 1975 Germany took 18.5 per cent of the French market, with sales to £92m last year, and were enough to close the trade gap, which was £284.6m in the first year in 1978. Agricultural products were another strong factor almost £250m for the same moving from £236.5m last year to some £160m in the first six period of last year. Nonetheless, some \$1.4 per cent of months of this.

French sales to Britain were covered by transactions in the components, are expected to be opposite direction, compared the best growth sectors over the with less than 68 per cent in coming yars, particularly if the 1874, when the British market EEC can agree a sheepmeat share reached its low point of regime which will favour exports to France.

If the figures are adjusted to market to French strength continues to freekwand in fab h and imports be in cereals and in motor year.

If the figures are adjusted to protected French market.

Fr 9.51 in 1975, it declined to from Britain, various cities in make exports to France French strength continues to £1=Fr 8.53 in March of this Germany, Italy and Greece. In creckoned in f.o.b.) and imports be in cereals and in motor year. addition to its own fleet of Boeings, El Al will have at its disposal two BAC one-elevens hitherto used by Arkia, the domestic airline.

The El Al management is also awaiting approval by the Ministerial

terial Economic Committee and the Knesser Economic Commit-

ITALIAN SHOE exports slumped 17.2 per cent to 121.99m pairs in the January-May period this year from the year earlier and Italian makers, among the world's largest again arged EEC quotas on Asian exports in order to prevent a further salues in the remaining months of the year.

Sig. Odoacre Mercatanti, director of the Italian Association of Shoe Manufacturers, told the annual assembly that the present situation was "worrying" follow
MILAN, August 30.

MILAN, August 40.

El Al buy two Airbus airlines.

This will be the first time that approval is granted of approval is granted approval is granted over a started next autumn, he disamports in Europe, Sig. Mercatanti said the flow into Europe of the Asian surplus imports in Europe, Sig. Mercatanti of shoes, as a result of quotas on Asian into Europe, Sig. Mercatanti criticised the long-standing today it would buy three Europe of the Asian shoes imposed in the ingular proval is granted approval is granted approval in El Al buy two Airbus airlines.

This will be the first time of the italian sheer of the Asian surplus imports in Europe, Sig. Mercatanti of shoes, as a result of quotas on Asian into Europe, Sig. Mercatanti of shoes, as a result of quotas on Asian into Europe, Sig. Mercatanti said the do

# and white there is much to be satisfied with, a change of entire the same of the satisfied with a change of entire of the satisfied with a change of the satisfied with satisfied with satisfied with satisfied with satisfied with the satisfied with satisfied with satisfied with satisfied with the satisfied with satisfied with satisfied with satisfied with the satisfied with satisfied with

EEC quotas against Asian shoes urged

Dr. Kurt Waldheim, endorsed the move for greater exchanges

The re

Thate

Scotti

campa

ر ه یکنامن برصول

Chedd fights

# starts Scottish campaign

By Ray Perman,

MRS. MARGARET THATCHER the boycott.

The committee wants the arrived in the Scottish Borders last night to begin a tour which foreign and Commonwealth future legislation if

Aithough lagging badly behind Labour in the opinion polls, the Conservatives could profit from the slump in support for the Scottish Nationalists and win back five or six of the mine seats lost to the Nationalists in 1974.

Also, in Berwick and East Lottian, vacant since the death of Professor John Mackintosh.

This was the only suggestion on which the committee's nine loss of the slump in support for the discussion of the support for the discussion of the support for the discussion of the support for the scott in the committee.

Two members, Lord Boyd-carpenter, a former Tory Agricularly bright spots in the culture Minister, and Lord Midlands and the North West.

McCarthy, a Nuffield don who takes the Labour whip, said that the federation, commenced: 'The one which the committee's nine on which the committee's nine of the discussion of the support of the committee.

Two members, Lord Boyd-carpenter, a former Tory Agricularly bright spots in the committee.

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Two members are the committee.

The committee was the control of the committee.

Two members are the control of the committee.

Two members are the control of the committee.

Two members are the control of the committ the slump in support for the

third in the series of highly professional party political broad-casts made for the Tories by Saatchi and Saatchi, Garland

Instead of an outright attack on Labour policies, the broadcast acknowledged that the Governmeant meant well and was full of good intentions, but had not developed the resources to pay for improvements in social services, education and health care.

BY DAVID FREUD

THE SHARP rise in unemploy- into the problems of adjusting mine months from last September ment over the last two months the figures, concludes that if the would have started later and may have been largely artificial, components were separately have been less steep.

The Statistical Office says that "would rise less sharply, if at the studies described in the published today by the Central "would rise less sharply, if at the studies described in the Statistical Office.

Separate adjustment would should be made in the methods should be made in the methods. Instead of an outright attack

A related message was that since the war every Labour government had increased income tax, whereas every Conseravtive government had reduced taxes while increasing social services.

Mr. William Whiteless of changes and summer unemployment.

leader, summing up the broadcast, said that the Labour Party
was always talking about caring
but talking was not enough.

It was a fundamental part of
Conservative policy to encourage
neonle to look after themselves

"hump" in 1976 and 1977 to the
seasonally-udjusted total, excluding school-leavers, which is
officially regarded as the best
indicator of the underlying from the UK sector of the North
Conservative policy to encourage
For this reason the present

For this reason the present

Compared with the previous a day, compared with 1,114,155 was always taking was not enough.

It was a fundamental part of Conservative policy to encourage people to look after themselves to the best of their ability, but the best of their ability, but the best of their ability, but the sepect all the help and compared with help and compared the previous passion that we could give them, he added.

Was always taking about caring officially regarded as the best of the underlying from the UK sector of the North from the UK sector of the North from the UK sector of the North platforms.

Average daily production a finance controller at the choices for the European aero-dustries in unemployment is thought to be due largely to inadequate the experience of the previous a day, compared with 1,112,155 barrels a day in June.

Total production maintenance work on production platforms.

Average daily production a finance controller at the choices for the European aero-dustries. The more challenged on the previous a day was largely due to a cut to 45,379,475 tonnes of crude oil, production in July was 1,092,328 barrels a day in June.

The drop in average production in July was 4,092,328 barrels a day in June.

The drop in average production in July was 5,18,550 tonnes. This brings the total for the last night that t

# Thatcher | Lords urge changed attitude to boycott

most discriminatory aspects of the Arab boycott while verbally send the Bill back to the Lords deploring it. The charge comes for a Third Reading, because of which proposes sweeping changes better trade and the widespread couraging compliance with the boycott.

It decided unanimously not to opportunities. The Government enterprise. The Government should help by assisting trade promotion, rather than by discouraging compliance with the boycott.

It should also urge companies

effectively opens her party's office to cease authenticating future legislation if the effection campaign in Scotland, where significant Tory gains are considered required by some Arab countries and critical and countries. tries, and calls these documents

But it has left open possible

on the 1977 Amendment to the "among the most discriminatory U.S. Export Administration Act. orms of the boycott mechanism."

But Lord Redelife-Mand said The Foreign Office has so far yesterday that the committee resisted calls for this kind of had been unable to draw con-

Lottian, vacant since the death of Professor John Mackintosh, Tories believe they have a chance of regaining the seat lost in October, 1974, when Labour's majority was 2,740.

Mis. Thatcher will spend most of temorrow in Roxburgh. Schikk and Peebles, seat of Mr. David Steel, the Liberal leader, where the Conservatives hope to overturn the 7,433 Liberal majority.

Richard Evans, Lobby Editor.

Richard Evans Evans Evans Evan

THE GOVERNMENT is accused Byers, the Liberal peer, who was prospects, and companies are today of condoning some of the also one of its members. urged to pursue all business most discriminatory aspects of it decided unanimously not to opportunities with courage and

The Byers Bill was modelled of statistics to monitor the boy-chants.

The Byers Bill was modelled cott, but otherwise information Sales

# Jobless rise 'not so sharp'

Mr. William Whitelaw, deputy been a summer unemployment addr. summing up the broad-

## Sea oil output falls

them, he added.

The article, which describes an in supplies from Shell/Esso's which takes the UK about half investigation by the research Auk Field and Mobil's Beryl way towards reaching self-a cinema advertising campaign. branch of the Statistical Office Field, to allow routine summer sufficiency in crude oil.



# The real Cheddar fights its way back

of cheese lore: the origin of the Cheddar species, so the story goes, can be traced back to the interior of a Cheddar Gorge were down to little more than a association, used caives stomachs enterior of a cheddar gorge were down to little more than a association, used caives stomachs of time, it is said a young shepherd, tired from trailing his rountryside, threw himself down for a nap without touching his bread, or the milk stowed in a newish pig's stomach vessel.

The boy slept on, the pig's stomach vessel.

Thus of the 166,000 tons of diet and hygiene problems—all the milk mutated, and presto—lunch for a hundred generations of SOMERSET has its own version

facture of the nutty, densely— market here intended to built Hurrods.

The cheese-maker's day start the limit of their, Mills and the control of the control



# **Building** material sales up 21%

By Michael Cassell, Building Correspondent

pread couraging compliance with the spread boycott.

It should also urge companies the UK were nearly 21 per cent up in June compared with the the report them voluntarily to the the Trade Department.

Trade Department.

SALES of building materials in the UK were nearly 21 per cent up in June compared with the same month last year, according to the National Federation of reduce This could enable publication Builders' and Plumbers' Mer-

could remain confidential.

The proposal on withholding June were nearly 5 per cent uppublic funds is tentatively phrased, reflecting disagreements in the committee.

The federation said that the more brownt picture was perfectly and provide the provide that the more provide the picture was perfectly and provide the provide the

picture for construction output.
Work levels are expected to rise by about 23 per cent this year, the first increase in output since

### Top steel finance man for GKN

# Iberia predicts

French air chief attacks Britain over U.S. link

on Page 10

Chairman and chief executive of capability.

Last December, Lord Beswick order book stood at £1,500m. It the French Aerospatiale group, told delegates at the Financial signed a memorandum of under the instrument of t

tant points with the immense said.

Lord Beswick believed it that any imminent decision by Routine four-hour flights over the British Government about a 6,000 miles would be possible commitment to future collaboration that always preached that narrow prontable levels of performance from continuing research, that any imminent decision by Routine four-hour flights over the British Government about a 6,000 miles would be possible commitment to future collaboration the longer term. preached that narrow nationalism was incompatible with the meaning or purpose of air transport.
General Mitterrand said that

LEADERS of the British and tinning civil programme as well tion would be significant only if French aerospace industries dis- as in a specific new civil project, matched by similar action in agreed yesterday over the extent. Collaboration was not to be West Germany and France, to which cooperation with the confused with sub-contracting. He emphasised the strength of British Aerospace. On vesting the opportunity fully to exploit day, when private British airchairman and chief executive of the French Aerospatiale group. Last December, Lord Beswick order book stood at £1,500m. It

At the conference (from left): Mr. E. H. Boullionn, Mr. E. Rubython and Lord Beswick

with U.S. and European arcraft variant.

Manufacturers.

But Lord Beswick, chairman of Those discussions had continued, but agreement on a new engines, with derivative tinued, but agreement on a new engines, with derivative when international collaboration of pounds and affecting British short term.

Was complete "the potential of aerospace policy for the next 20 Sir Donald predicted that Europe will be linked at important profits with the immenses said.

still rising.

However, four-fifths of the orders were for military aircraft and weapons and 69 per cent of the total was exported. British Aerospace wanted to improve the balance between the military and civil side.

would expect an increase in building activity as contractors take advantage of the fair develop their family of aircraft weather and isonger hours of day-light — but the increase in these figures exceeds the usual seasonal upturn."

The federation's figures reflect the trading position of 95 per cent of Britain's builders' merchants and confirm a brighter picture for construction output.

The formal britain builders' merchants and confirm a brighter picture for construction output.

The formal britain builders' merchants and confirm a brighter picture for construction output.

Those discussions had confirms with derivative points.

Those discussions had confirms with derivative would be a confirmed plant to confirm a brighter picture.

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Those discussions had confirms with derivative would be a confirmed plant to confirm a brighter picture.

Those discussions had confirmed plant to confirmed plant to confirm a brighter picture.

Those discussions had confirmed plant to confirm a picture picture for construction output.

The formal plant the family of aircraft point a U.S. makers must either developments were a finally of aircraft point a U.S. makers must either the proper picture.

Speaking on aero engines, Sir Don Pepper, vice chairman of Rolls-Royce, said that the greatest new developments were taking place in designs for aircraft with 230 seats and fewer.

The federation's figures reflect the usual section of the Bilo Airchus and the German plant and

said. profitable levels of performance Lord Beswick gave warning from continuing research.

## Less demand for speed, says head of Boeing

makers and engineers. British steel said last night that the move was "a logical business promotion."

Mr. McLuskie, who has special responsibility for BSC's Treasury operations, is one of three controllers responsible to Mr. Claude Osborne, the BSC director of finance, who in turn reports to Mr. Frank Holloway, the managing director for finance.

Mr. McLuskie, who has special responsible to Mr. Claude Osborne, the BSC director of finance, who in turn reports to Mr. Frank Holloway, the managing director for finance.

Mr. McLuskie, who has special responsibilities.

The risk was that its success one of world airlines' prime immense" impact on earthbound portions of society. Threats Additional reage also had from conservationists to current improvements were always expansion had to be countered that speed was no longer traumatic, profound and immense" impact on earthbound portions of society. Threats Additional reage also had from conservationists to current improvements were always expansion had to be countered the training and immense important portions of society. The second solution for future was no great demand for aircraft much larger than the ton antional capabilities.

The risk was that its success one of world airlines' prime immense immense

The second solution for future world airlines were demandated as series of middle and senior management resignations from British Steel

The trend has gathered pace in recent months as Str Chalce.

A European management as the latest projects was safer in that it took ing "every ownce of improve those leaders who must manage solutions."

The trend has gathered pace in recent months as Str Chalce.

A European management and pace are causing available to-day.

The departure is the latest in that it took ing "every ownce of improve those leaders who must manage solutions."

The world air travel industry can squeeze from his design."

Was overwhelmed by structural tage would have to be paid for.

Manufacturers, suffering under and political changes.

MR. TEX BOULLIOUN. Presi- That growth, Mr. Boullioun dent of Boeing, told the con- said, would create an "awesome, ference that speed was no longer traumatic, profound and one of world airlines' prime immense" impact on earthbound

a series of middle and senior management resignations from British Steel.

The trend has gathered pace in recent months as Str Charles Villiers, the chairman, has made clear that it is the corporation by policy to make drastic reductions in white-collar staff as works are closed and shop-floor jobs lost.

Some 15,000 steel working jobs have gone in the last year.

A number of head office department providing services for the stelmaking divisions have been run down to staffing levels only half the size of five years of the stelmaking divisions have been in the finance department, the legal department, and information services.

Wherever possible specialised work is possible specialised work is being contracted to our given the stelmaking in advantage in long the recombination. British Aerospace wanted in the St. port of the stelmaking its own conveyancing:

Therria nreficed so

# Credit plans for High Street

BY OUR CONSUMER AFFAIRS CORRESPONDENT

HIGH STREET retailing groups finance their spending through day that a feature of the credit are planning to cash in on the credit schemes.

Consumer boom by offering The Bradford-based Unicredit would be accepted instantly by

for a hundred generations of ploughmen.

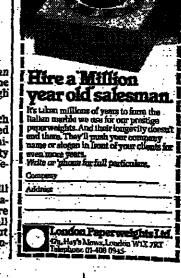
As with most folk tales, there is probably a crumory of the year and their considering its own changes are the possibly a crumory of the year and their wild and

consumer boom by one ring. The Bradford-based Unicredit would be accepted instantly by customers special credit card company, an offshoot of the stores upon proof of identity, facilities.

Provident Financial Group, is This was to overcome the often ashion group Etam, and the High Street retailers with their cards while a customer's credit tasky's audio chain, are planning own credit cards. Unicredit rating was established.

The amount of interest the end of the year And We retailers waiting to introduce customers will never the content of the year.





# French-Speaking A.C.A.

Develop the future of an important division.

The Company: The parent Group, has trebled its results in the past 10 years. They dominate in a number of fast moving and dynamic markets, as a result of product range and constant new innovation. The Division manufactures a wide range of consumer products — with world amount brand names. With a turnous of c. 66m.

famous brand names. With a turnover of c. £6m and a work force of c. 500 they are poised for

Your Opportunity: Assume complete responsi-

bility for all functions, including • Sales and Marketing • Re-Organising Production Facilities and Plant (producing a wide range of small cast,

pressed, turned and plastic moulded products in

high volume, using flow-line assembly techniques) • R & D for new products • Overall

cost reduction programmes designed to improve

renewed growth.

Our client is a major subsidiary of a leading U.K. holding company, manufacturing a range of specialist engineering products in the U.K. and W. Europe.

It is currently undergoing a substantial reorganisation to increase market share, profits and return on capital. This has created a new and challenging position for an ACA in the mid

Reporting to the Divisional Finance Director, the role encompasses a wide variety of responsibilities arising from the restructuring; for example monitoring the treasury, tax and To £7500 + Car

legal implications, and implementing new financial and commercial arrangements.

In addition, you will visit the Continent regularly to ensure satisfactory adherence to pre-set targets, preparing progress statements for the Board, to advise and train local managers on refined accounting and reporting requirements, and to improve the overall quality of financial management.

Hence the main essentials are an ability tospeak French, a keen commercial awareness, mobility, and an ambition to join a large British Group, operating in the Common Market.

Please contact Peter Wilson, FCA, in strict confidence, at Management Appointments Limited, Albemarle House, 1 Albemarle Street, London W.1. Tel: 01-499 4879.

# Management Appointments Limited

c. £20,000 + substantial benefits

Your Rewards: Generous basic salary + Executive car + Pension Plan + 4/5 weeks holidays

ACT NOW! Write or telephone (in the

strictest of confidence) to the Company's

adviser, David Burns, 8 Sc./Engl. C.Eng., M I.Mech E. (Director) on 01-388 2051 or 01-388 2055 (24

hour Ansephone) Quoting Assignment

## Thomas Cook

either address.

UNIVERSITY OF THE

WEST INDIES-

TRINIDAD

Applications are invited for the CHAIR in ACCOUNTING in the DEPARTMENT OF MANAGEMENT STUDIES with specialisation in Finan-

cial Accounting and Management Accounting. Salary scale 177/78—TT836,729-45,480 p.a. (£1 sterling=TT84.62). FSSU:

unfurnished accommodation if available at 10% or furnished at 121% or housing allowance of 20 = of pensionable salary.

Family passages; study and travel grant. Detailed applica-tions (2 copies) with curricu-

lum vitae and naming 3 referees to be sent direct to

Secretary, UWI, St. Augustine,

Trinidad as soon as possible. Applicants resident in the UK

should also send one copy to

Inter-University Council. 90/ 91 Tottenham Court Road, London W1P 0DT. Further

details may be obtained from

Project Manager & Product Development Up to £8,000 Peterborough

appointment does not necessarily mean having to work in London, with all its attendant time-wasting

Thomas Cook Bankers Limited, the company within Thomas Cook - the world's largest travel organisation -- specialising in travel-related banking services has two positions available in the Development Division where technical ability and negotiating skills can enable candidates selected to make a major contribution to development projects for expanding world markets.

To be responsible for investigations into the technical, legal and commercial aspects of new banking projects and for co-ordinating

Candidates should have a general banking background which includes experience of international money transfer and foreign exchange, O & M experience would be useful.

#### Product Development Manager

To be responsible for the conception of new banking products together with the necessary with the marketing function and undertaking the

depending on age and experience, with an upper limit around £8,000 per annum. The complete package includes major company fringe benefits and relocation allowances where applicable. Both positions apply to male and female applicants.

giving details of your career and present salary, to:--Personnel Manager — Banking Thomas Cook Group Limited, P.O. Box 36, Thorpe Wood, Peterborough PE36SB.

#### MANAGING DIRECTOR **Major Consumer Products Manufacturer**

An outstanding opportunity to join one of Britain's most successful Groups . Carry through a major factory re-organisation and capital investment programm Our Ideal Candidate: A successful businessman Our foeal Candidate: A successful businessman and man manager with a proven track record in running a company in the light engineering, high volume, multi-product consumer or industrial goods fields. Strong financial and industrial relations skills are essential. An understanding of marketing/selling functions is desirable. Manager (Banking)

Why commute to London? A senior banking

#### Project Manager

implementation on a worldwide basis.

feasibility studies to justify them, including liaison role of Project Manager for specific projects.

Candidates should have experience of product development preferably in the banking/finance. sphere. Some knowledge of systems and O & M

Starting salary for both positions is negotiable,

To apply, please write specifying the position,

# Financial Controller

MERTON ASSOCIATES (CONSULTANTS) LIMITED Merton House, 70 Grafton Way, London W1P 5LN Executive Search and Management Consultants

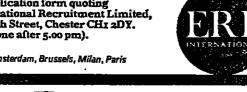
Qualified Accountant. Age around 30 to £9,000 + benefits

A national leader in its specialist industrial manufacturing field, our client wishes to fill a new position of Financial Controller because of retirement, promotion

The person appointed will have staff responsibility for all-financial and administrative personnel and direct responsibility for costing, budgets, cash resourcing and overseas operations, and therefore we are looking for experience in any or all of these areas. Candidates will be qualified accountants with strong personality able to influence senior as well as junior management and looking for a Board appointment in three or four years.
Salary and benefits, including relocation to Cheshire, are excellent.

Apply in confidence for an application form quoting reference C.197, to ERP International Recruitment Limited, Clemence House, St. Werburgh Street, Chester CH1 2DY. Telephone 0244-317886 (Ansafone after 5.00 pm).

Offices in London, Chester, Jeddah, Amsterdam, Brussels, Milan, Paris



## Senior **Financial Executive**

£12,000 p.a.

This not an appointment for which a currencies for major trading negotiations qualified accountant is necessarily required. It calls for a senior financial borrowing and deposits in U.K. and the qualified accountant is necessarily required. It calls for a senior financial executive with broad experience of trading finance, preferably with commodities, and funds management. Our clients, a major international Group, will require their Financial Executive to be responsible, inter alia, for decisions on terms and

appraisal of the financial position of Group development projects and potential investment opportunities. Some travel both in U.K. and overseas will be necessary. Candidates will be considered up to the age of 55. Normal large Group benefits.

Applications in confidence quoting Ref. No. 6279 to E. A. C. Griffin, Mervyn Hughes Group, 2:3 Cursitor Street, London EC4A INE, Tel: 01-404 5801 (24 hours).

Mervyn Hughes Group Management Recruitment Consultants

#### Jonathan Wren · Banking Appointments The personnel consultancy dealing exclusively with the banking profession

JUNIOR EUROBOND DEALER

An international investment bank seeks a young person, ideally aged between 19-24, to develop his/her involvement in the market within this growing company. Applicants must have a little dealing experience either in the primary or secondary market, together with some knowledge of settlements, etc. Fluency in German or French would be an advantage. The successful candidate will be given full in-house training, including a residential course. Foreign travel is possible in the future.

#### **INVESTMENT ANALYST**

An international investment bank seeks an experienced Analyst to assist in developing its activities. The ideal applicant will be aged between 22-26 with about two years' analysis experience gained mainly in the U.K. market, but with knowledge of South African and Australasian markets. Flexibility is essential, for the successful applicant will become involved with other work including private U.K. company investigations.

#### JOINT STOCK BANKER/ TRAINEE LOAN ADMINISTRATOR

An international bank seeks a young person aged in his/her 20's, with a good education and a few years' banking experience preferably gained within a management trainee scheme. The position is as Assistant to the Loans Manager who will personally give full training and, as the majority of the work is with the French-speaking world, the successful applicant must have a good knowledge of French. Experience of international lending is not essential, but applicants must be prepared to work hard in a very active department. Please Contact: RICHARD MEREDITH or ROY WEBB

170 Bishopsgate London EC2M 4LX 01-623 1266/7/8/9

## **LEADING** MERCHANT BANK

requires an

Assistant to the Manager

of its Scandinavian Department to work in London.

The successful applicant should have a Danish or Norwegian background with fluency in a Scandinavian language as well as English.

He/she should be aged between 25-30 years with economic, business management or legal qualifications and preferably with some experience of banking or shipping finance.

The Bank intends to fill this position sometime between 1st October, 1978 and the end of the year. Salary will be negotiable according to the qualifications and experience of the successful applicant, not less than

Applications should be made in writing to Box A.6453, Financial Times, 10, Cannon Street, EC4P 4BY.

#### Editor—Export Journal

Part or full time editor required for new export journal. Must have extensive experience in exports, particularly outside Europe. Based in Central London. Excellent pay plus bonus.

Write with c.v. to Box A.6446, Financial Times, 10, Cannon Street, EC4P 4BY.

## MANAGEMENT AUDITOR

City Merchant Bank

circa £7000 + low cost mortgage + benefits

Supervising a small staff, the Auditor will develop a state of computer audit programs for use in testing the procedures and functions of the Bank's soon-to-be computerised systems. Reporting to the Head of Operations, he are the state of the Directors' Audit all banking activities and have regular contact with the Directors' Audit

Opened in 1973, our merchant banking client has undergone rapid growth and has already achieved high levels of profitability. Planned future growth will provide promotion opportunities for the right candidate. Applicants, age 23-26, should be recently qualified accountants with specialist computer audit experience. Please telephone or write to David Hogg, ACA, quoting reference 1/1733.

EMA Management Personnel Ltd.

Burne House, 88/89 High Holborn, London, WCIV 6LR Telephone: 01-242 7773

# **Taxation Manager**

Richard Costain Limited, a leading UK-based international construction Group with substantial operations overseas, wishes to appoint a new Taxation Manager for the London-based (Waterloo) Taxation Department Responsibilities include dealing with the taxation affairs of all the UK companies in the Group including those operating overseas and also advising on taxation matters affecting overseas companies with a view to minimising total liabilities. The Taxation Manager is also likely to be involved in contract drafting and advice on relevant taxation aspects. He or she is required to be familiar with UK and overseas tax legislation so far as it affects UK employees operating for the Group overseas. The preferred applicant will be creative and imaginative, with a commercial attitude to world-wide tax planning. importance is attached to maintaining a good relationship with the

taxation authorities and this can involve overseas travel. The appointee must have a first rate professional training and experience in corporate taxation with a subsequent period in a senior position in the

taxation department of a large commercial organisation having major

The salary is negotiable and will reflect the importance of the position. A car is provided and there are other benefits including a first class pension scheme. Where appropriate, assistance will be given with relocation expenses.

> Please apply in writing with full details to: The Financial Director

#### Richard Costain Limited

111 Westminster Bridge Road, London SE1 7UE.

# Tax Specialist

up to £8,500

Central London

Our clients are a leading multi-national engineering construction company with UK offices in Central London and subsidiaries throughout Europe. In order to meet the demands of such international operations they are currently looking for an experienced Tax Specialist.

Providing a planning rather than a computation function the person appointed will deal with all matters relating to Personal and Corporate tax within a European context.

Professionally qualified applicants should therefore possess at least 2 years' experience of could come from either a legal or accountancy environment. The ideal age range

The position is based in Central London but will involve some foreign travel. Our clients offer a starting salary of up to £8,500 according to age and experience and a highly competitive range of benefits including an annual bonns and non-contributory pension and life assurance scheme.

Please apply, quoting ref: Fit. /161, giving brief but relevant career details to date, and listing any companies to whom you do not wish your application forwarded to Peter Phillips

forwarded, to Peter Phillips. Riley Advertising Limited, Old Court House, Old Court Place, Kensington, London W84PD.

A member of the Rex Stewart Group LONDON BIRMINGHAM BRISTOL EDINBURGH GLASGOW LIVERPOOL MANCHESTER NEWCASTLE NOTTINGHAM PERTH



). El

# **Financial Planning Manager**

Central London

to £9500 +car

Business-minded accountants, who are eager to have their abilities fully extended, will find this position of exceptional interest. Our clients are a highly profitable and expansion minded Group (T/O £50m). Reporting to the Financial Director and working closely with other directors and senior management, the successful candidate will be responsible for preparing periodic forecasts, reviewing the Group's financial plans and cash projections and conducting specific investigations. Applicants, male/female, aged 28-30, must be qualified, preferably with a degree and a knowledge of French or German and have gained a minimum of three years' industrial experience in a major international organisation. Ref: 473/ Apply to R.P. Carpenter FCA, FCMA, ACIS, 3 De Walden Court, 85 New Cavendish Street, London WTM 7RA. Tel: 01-636 0761.

ullips & Carpenter\_ Selection Consultants

Antony Gibbs Holdings Limited

# Fund Manager

Due to the recent acquisition of the Piccadilly Group of Unit Funds, Antony Gibbs have a vacancy for a Fund Manager with experience both in the U.K. and American markets. Applications, which will be received in the strictest confidence, should be made to:-

The Personnel Manager, Antony Gibbs Holdings Limited, 3 Frederick's Place, Old Jewry, London EC2R 8HD.



## ExportFinance—City

This new appointment springs from the rapid growth of a well established subsidiary of a major international bank, and the successful candidate can earn appointment to the Board within one year.

Candidates are unlikely to be under 35 and will have a confprehensive knowledge of ECGD Programmes and of their practical application in the medium/long term financing

Salary is negotiable around £15,000 plus car, profit share, non-contributory pension, mortgage facilities, etc.

Please write - in confidence - to J. M. Ward ref. B.41345.



United Kingdom Australie Belgium Canada France Germany Holland Ireland Italy New Zealand South Africa South America

International Management Consultants 17 Stratton Street London W1X 6DB

# **UK** Director

# Finance & Administration

for a subsidiary of a worldwide pharmaceutical operation with UK sales of approximately £11m. The Director, as chief accounting and administrative executives directs all financial accounting procedures, management accounting and particularly administrative services of the Pharmaceutical Division and will also provide an administrative service for UK operations. The appointed candidate will report to the UK General Manager, control a staff of 100 approximately, be a senior member of the Management Committee, giving policy advice to fellow-executives. Location, South Bucks.

Candidates, aged up to 50, should be professionally qualified and have successfully controlled a financial function with a major administrative component, preferably part of a worldwide corporation.

Negotiable starting salary, car and usual benefits.

Please send relevant career/salary data - in confidence - to S. W. J. Simpson ref. B.38293.

This appointment is open to men and transen.



United Kingdom Australia Belgium Canada France Germany Holland Ireland Italy New Zealand South Africa South America Swaden Switzerland U.S.A. en Switzerland U.S.A.

International Management Consultants Management Selection Limited 17 Stratton Street London W1X 6DB

## YOUNG ACCOUNTANT + U.S. BANK

=C. £8,000 + Banking Benefits

Our Client, a large American Bank with its London branch being a major contributor to bank profits, requires a qualified Accountant to develop and control management information procedures. Using a thorough knowledge of U.K. tax laws and two to three years' post-qualification experience in the financial sector, be or she will run the Expenses Control and Management Reporting Departments and report direct to a Senior Operations Manager. Familiarity with management information systems is necessary in order to develop the cost accounting system. This is a fine career opportunity to enter a progressive and meritocratic organisation in a functional role. Location:

Please apply in confidence to: Jack Pine, quoting Ref. JP/35/1



David Clark Associates

4 New Bridge Street, London E.C.4 01 353 1867

# HICKING PENTECOST & CO LTD

#### **GROUP SECRETARY**

Hicking Pentecost & Co Ltd is a Public Company in the Textile Industry. The Group operates eleven factories with fifteen hundred employees and has a turnover in excess of nine million pounds.

A Solicitor, Chartered Secretary or Qualified Accountant aged 30-45 is now required to fill the post of Group Secretary. The Group Secretary is based in Nottingham and is directly responsible to the Chairman of the Group for the control of secretarial; share registration, pension and insurance work for the Company and its subsidiaries. He/she is also required to advise the Management on legal and property matters.

The commencing salary will be about £7,000 per annum and there will be the use of a company car. Applications should be made in writing giving full details of education, qualifications, experience and salary required to the Group Secretary at Queen's Road, Nottingham.

## Manager-Accounts Department

An Excellent Management Opportunity in a Dynamic Environment

Orion Bank is a multi-national investment bank in the City which has gained an enviable reputation within the international

Following recent internal re-organisation, the Bank requires a mature disciplined person with the ability to lead and manage an expanding Accounts Department with the emphasis on proven managerial ability.

Candidates should possess a comprehensive knowledge of

caudinates should possess a comprehensive knowledge of accounting systems within an international Banking environment, a relevant professional qualification, and should demonstrate a sound understanding of management accounts preparation, computerised accounting systems, and possibly Eurobond accounting principles. In addition, the successful candidate, who will probably be

aged 35-45 years, must have the personal attributes essential to lead and motivate a team within an enthusiastic and dynamic

atmosphere.
This is a managerial appointment, and the importance attached to this function by the management is reflected in the competitive salary offered, together with an attractive fringe benefits package which includes preferential house loan facilities, Applications, which will be treated instrict coulidence, should accompanied by a curriculum vitae and addressed to:

The Personnel Director,
Orion Bank Limited, 1 London Wall, London EC2Y 5]X
Tel: 01-600 6222

ORION

# Management Accountant

As a result of a recent promotion, a vacancy now exists within our Finance Department for an experienced Accountant well-versed in management accounting, budgeting and tariff calculations. The main responsibility of the job is to help one of our major departments to prepare budgets, five year plans and cash forecasts, interpret monthly reports, monitor and revise tariffs and set standard labour costs. There is also involvement in the preparation of capital expenditure proposals, and, as the link between Finance and Settlement Services Department, in advice on financial policy, preparation of ad hoc reports on accounting matters, and interpretation of guidelines and

The job calls for a qualified accountant (ACA, ACMA, ACCA), probably in his her thirties, and capable of accepting a high degree of independence.

Salary is likely to be in the region of £8,500. Other benefits include non-contributory pension, life assurance and disability schemes, free membership of BUPA, LVs, five weeks' holiday

Please telephone for an application form, or write fully to Phil Mountford, Manager, Personnel Services, The Stock Exchange, London EC2N 1HP (01-588 2355 ext. 8086).



The Stock Exchange

## Financial Controller

S.W. Essex. to £9,000 + car.

The very successful transport services sub-sidiary of a major UK group seeks a Controller. This is a total modern controllership, with minor exceptions. There is considerable scope to improve operating efficiency and profit-ability. Existing staff (and EDP) support is good. Salary will be augmented by a company car and 'leased' car if required.

Candidates should be Chartered Accountants aged 27 or over, Essential experience is (a) the preparation of statutory accounts and (b) performance reporting and cost control in a reasonably advanced environment. The com-pany is a recent group acquisition so it is not yet possible to forecast movement to the parent company. However, planned local growth should provide more than enough in the way of prospects. This is an equal opportunity appointment.

For a fuller job description write to John Courtis & Partners Ltd., Selection Consultants, 78 Wigmore Street, London W1H 9DQ., demonstrating your relevance briefly but explicitly and quoting reference 795/FT.

## INVESTMENT MANAGER

Fidelity Management are seeking an experienced Investment Manager for its London Office. An oportunity arises for a man or woman who has had several years' solid experience of managing internationally diversified portfolios on behalf of institutions. Specific responsibilities will include coverage of the major Continental European markets with special emphasis upon equities. This is with special emphasis upon equities. This is an opportunity to join a major investment management firm at an exciting time in the development of its international business. An attractive compensation package to include salary, bonus, pension and other fringes is wide open to negotiation.

Applications, which will be treated with the strictest confidence, should be submitted

Jim Tonner,

Fidelity Management & Research (U.K.) Ltd., 64 Cannon Street, London E.C.4. (Tel: 01-248 4891.)

Cambridgeshire

Up to £12,000+car

## FINANCIAL DIRECTOR

The Client

The Job

The potential of this rapidly expanding company, which manufactures and markets a well known consumer product, the leader in its field, is demonstrated by its dramatic growth over the past 5 years. From sales of less than £0.2 million in 1973 turnover is currently running in excess of £6.5 million a year. Profits have been consistently good and prospects of substantial future growth, both at home and overseas, are excellent.

Reporting to the Chief Executive of the U.K. division with a functional link to the Group Financial Director, responsibility is for the financial and management accounting functions. The initial emphasis will be on ensuring that standard costing systems are properly developed and implemented.

Must be a qualified accountant with substantial production and management accounting experience, gained preferably in an engineering environment. Preferred age, early 30's. Male or female. A mature and lively approach with an ability to motivate people and get things done is essential.

Brief but comprehensive details of career and salary to date, which will be treated in confidence, should be sent to J. G. Cameron, Executive Selection Division at the address below. Please quote reference CF344 and include if possible, a daytime telephone number at which you can be contacted.

#### COOPERS & LYBRAND ASSOCIATES LTD.

Management Consultants Shelley House, Noble Street, London, EC2V 7DQ.

# financial controller

Volvo Group, part of the Lex Service Group. comprises Volvo Concessionaires, sole UK importers of Volvo cars and parts, and Lex Brooklands, a chain of retail Volvo distributors. It has an annual turnover in excess of £100m and an impressive growth and operating record.

As a result of internal career advancement, we are seeking to appoint a Controller who can demonstrate an outstanding financial track record, good business acumen and who has the potential to progress to the highest levels

within the expanding Lex Service Group.

The Controller will be responsible for the development of financial policy within Volvo Group and for providing a financial control and information service. He or she will advise and assist the Group Management on all financial matters and negotiations, with particular regard to the optimisation of profits and cash flow. He or she is also responsible for the DP function, which is an integral part of the daily operation of the business, for controlling the Capital Project Appraisal System and for

Aged 33-40, candidates, male or female should be qualified chartered accountants with a successful career in financial management. Previous line responsibility for a DP activity is highly desirable. It is unlikely that anyone earning less than £13,000 p.a. would have the appropriate level of experience for this important position. Benefits include a Company car, B.U.P.A., 5

weeks' holiday and non-contributory pension and sickness schemes. The position is based at High Wycombe, Bucks and generous relocation expenses will be given where appropriate. Please send a detailed qualification and career

profile, obviating the need for an application form to: Mr RJ Tidey Group Personnel Manager

Volvo Group Volvo House Lancaster Road Cressex Industrial Estate HIGH WYCOMBE

VOLVO

## GENERAL MANAGER

#### Large Trading Group in Middle East

An opportunity exists in the Middle East for an outstanding senior executive of genuine provable ability with a track record of at least 15 years in management of trading or similar entrepreneurial concerns.

Candidates must have a wide ranging knowledge of all aspects of international trading and particular skills in organising and running a multi-divisional company with branches.

The post will be that of General Manager and the rewards will be extremely attractive to an appointee of the right calibre.

Terms will include incentive in the form of profit sharing.

Applications in writing with full curriculum vitae to Box . A6455, Financial Times, 10, Cannon Street, EC4P 4BY.

#### Jonathan Wren · Banking Appointments The personnel consultancy dealing exclusively with the banking profession

**CREDIT INSPECTOR** 100% Travel

to \$21,600 +100% expenses

A major international bank wishes to recruit a young banker with credit analysis or credit inspection experience to assist in conducting detailed examinations of the bank's loan portfolio throughout its global branch network.

This will include in-depth analysis and evaluation of risk assets; pinpointing undue risks and exposures; recommending corrective action and improvement; and generally assisting in the improvement of credit administration procedures.

The position involves 100% travel; applications are therefore invited from candidates prepared to be fully internationally mobile.

MONEY MARKET Negotiable Instruments

Substantial Salary

An active London merchant bank seeks to expand its already considerable dealing operations by establishing a Negotiable Instruments desk within its Money Department.

This opportunity is open to a person with four or five years dealing experience in the Dollar CD, FRN or Eurobond markets. To an energetic, sales-oriented executive the position offers excellent scope for personal development.

Please Contact: SOPHIE CLEGG or KEN ANDERSON

170 Bishopsgate London EC2M 4LX 01-623 1266/7/8/9

#### **TAXATION SUPERVISOR** Banking

London EC3

C£8500+ major benefits

Our client is a major international commercial banking group with a comprehensive range of activities. The Taxation Supervisor will co-ordinate UK compliance work for the Group, reporting directly to the Group Taxation Manager at their Head Office in the City.

This appointment will suit candidates with wide commercial tax experience, preferably aged 35 upwards. An excellent benefits package includes subsidised mortgage and non-contributory pension scheme. Please telephone or write to Stephen Blaney, B.Comm., ACA, quoting reference 1/1734.

> EMA Management Personnel Ltd.
> Burne House, 88/89 High Holbom, London, WCIV 6LR Telephone: 01-242 7773

#### ROWE & PITMAN, HURST-BROWN

Analyst-Food Manufacturing/Tobacco

Rowe & Pitman, Hurst-Brown are seeking an analyst to develop their research effort in these sectors. Applicants should have had at least two years' relevant experience which will probably have been gained either in stockbroking or with a major financial institution.

We are offering an attractive remuneration of salary and profit sharing bonus, together with a non-contributory pension scheme incorporating good life cover.

Applications in confidence with full curriculum vitae to:-

P. N. Smith, Esq., Staff Manager, Rowe & Pitman, Hurst-Brown, 1st Floor, City-Gate House. 3945 Finsbury Square, London EC2A 1JA.

# **GROUP ACCOUNTANT**

Recently Qualified

London Wf

10 £7500 + car

400

Providing a range of financial, accounting and management services to group componies, the Accountant will also have major responsibilities in the development of group financial control and strategy. Working closely with the young Financial Controller he as she will be involved in systems development, cash management, and the review of potential acquisitions.

A sub-group of a giversified public group, our trading company client has a turnover of £50 million, healthy profits and is growing both organically and through acquisition. Aged 23-26, applicants should be recently qualified chartered accountants preferably with major professional practice experience. Please. telephone or write to Davig Hogg, ACA, quoting reference 1/1739.

EMA Management Personnel Ltd.

Burne House, 88/89 High Holborn, London, WCIV 6LR
Telephone: 01-242 7773

## **International** Investment Analysis

analysts, specialising primarily in international equity investment - one with responsibility for North American markets and the other for European markets, principally U.K. and West Germany.

The successful candidates will undertake analysis of a wide range of economic and financial trends with view to providing inputs for currency and interest rate forecasts in their respective areas. The major part of their work will be formulation of equity investment strategy, including specific sector and individual stock analysis in each market.

These positions call for considerable adaptability, and a high degree of ability in communication in both verbal and written form. Travel will be involved for both positions.

Age is not a limiting factor, although the age group is envisaged at 24-30; candidates should have a minimum of two years relevant experience with an Institution or brokerage house; an economics degree or similar qualification

An attractive salary will be offered reflecting experience and ability, and benefits are in line with normal banking practice.

Please send complete career details, in full confidence, to the Director of Research at the address below.

International Investment Management Service

BANKOFAMERICA International Limited, St. Helen's, One Undershaft, London EC3A 8HN. Tel: 626 2772

### SENIOR FINANCIAL EXECUTIVE-U.S.

A highly successful and rapidly growing company on the West Coast requires a senior executive with 8-10 years' first-hand experience in the functions of controllership.

Background experience should be international, most probably in a major U.S. consumer goods company, where judgment, integrity and the ability to administrate effectively and to make tough decisions under pressure would have been essential. The accent is upon a strong background in control, but knowledge of the treasury function orld-wide would be helpful

An extremely generous salary in the upper five-figure bracket with additional fringe benefits is offered and, as it is envisaged that the successful candidate will have the oportunity to become the Chief Financial Officer of the company, candidates should have distinct style and an attractive personality as well as the necessary technical competence, initiative and diplomacy.

Please send full details of career background, which will be treated in confidence, to Box A.6454, Financial Times, 10, Cannon Street, EC4P 4BY.

# Company Secretary

For a public company, providing a range of Industrial Services through a group of subsidiary companies both in the U.K. and overseas. The Company Secretary designate will report to the present incumbent and also to the Group Managing Director and will be appointed Company Secretary in due course. Responsibilities include the usual range of company secretarial duties together with the preparation and vetting of legal contracts. This appointment offers the opportunity to make a positive contribution at top level to a corporate management team. Applicants should be qualified Company Secretaries with considerable experience in financial and insurance matters too knowledge of group pension schemes. Salary negotiable, together with excellent fringe benefits with Company car, based in a small Head Office west of London.

Preferred age 30-40. Reference 112.

Telephone Philip Egerton on 01-409 0434.

Philip Egerton Associates

Selection Consultants 178/179 Piccadilly, London WIV 0 OP



#### WOOD, MACKENZIE & CO.

Members of The Stock Exchange

#### MATHEMATICAL ANALYST/PROGRAMMER

Due to continuing expansion a vacancy has arisen within the computer department for an Analyst Programmer with a sound mathematical background. The successful applicant will be required to contribute at a high level to special mathematical projects which are being developed on our ICL 1902S/2950 mainframes and via terminals to remote mainframes.

Applicants should have a degree to mathematics or a related subject and general computer experience, including high level language programming. Knowledge of investment techniques and mave detailed experience in COBOL/FORTRAN programming would be desirable but not essential.

Location in Edinburgh and conditions of employment are excellent with starting salary negotiable up to £6,000 p.a. depending on experience. The firm operates a profit related bonus scheme and contributory pension scheme.

Please apply giving details of your career to date, to: Computer Co-ordinator, Wood, Mackenzie & Co., Erskine House, 68-73 Queen Street, Edinburgh, EH2 4NS. Tel: 031-226 4141

#### FINANCIAL CONTROLLER

required by expanding home building company. Must be a qualified Accountant with commercial experience preferably within the building industry. This senior post commands a top salary, company car and other benefits. The position offers scope for initiative and the successful candidate, who should be of board material, will be responsible for all financial aspects of the company, including the preparation of company accounts, forecasting and site trading accounts, updating of site appraisals on a regular basis and comparisons of actual costs and appraised costs.

Please apply in writing with curriculum vitae in strictest confidence to: Mr. I. Fisch

ARNCLIFFE

HOLDINGS LTD. (inc. Walt Ratcliffe Ltd.). Holbeck Chambers, 101 The Headrow, Leeds LS1 5JW. Tel: 445051.





#### CHIEF ACCOUNTANT

circa £9,500 + car

INSURANCE

A general insurance company, part of a large U.S. group, requires a qualified accountant, aged about 27-35, for a new appointment. He or she will have gained management experience, ideally in the insurance industry. With the help of three managers, the Chief Accountant will control the accounts department, which uses fully computerised systems, and will work closely with the Financial Director. The company is growing fast and offers an attractive opportunity

to participate in a dynamic management team.

Sir Timothy Hoare, Chichester House, Chichester Rents, WC2A 1EG. 01-242 5775

#### COMMODITY **SPECIALIST**

A leading International Investment Group has an exceptional vacancy based in London for the person with matching ability. The basic requirements include successful completion of the U.S. National Commodity Futures exam, experience in trading commodities on all the U.S. futures exchanges and expertise in money management: fluency in various Indian dialects including Hindi, Gujrati and faultless English. A knowledge of Persian or Arabic would be highly desirable and a knowledge of Italian, German and French would be advantageous. The ideal candidate will have existing commodity clients in the Middle East/Gulf areas as well as India and be able to develop new prospects in those areas and carry them through to completion.

Salary is circa £12,000 per annum with usual big company fringe benefits. If you feel you can handle this challenge, please write, in strictest confidence, enclosing curriculum vitae, to Box A.6456, Financial Times, 10, Cannon Street, ECAP 4BY. <sup>{</sup>

# **Manager-Finance Systems**

London, c. £9,000 (incl. bonus) + car

has been exceptional and they now employ 1800 and have a ged 27-30 and qualified accountants must show a high accounting background with a strong involvement in

Our client is the highly successful UK subsidiary of a major and control systems, liaise with the accounting EDP international corporation involved in the records and music functions at the design stage and take full responsibility for industries. The subsidiary's growth over the past few years the subsequent effectiveness of his/herschemes. Candidates aged 27-30 and qualified accountants must show a broad creativity and leadership, the successful candidate will computerised financial systems. The ability to communicate identify user needs in financial and management information clearly and influence senior management is essential.

G.E. Forester. Ref: 18167/FT.

Male or female candidates should telephone in confidence for a Personal History Form to: LONDON: 01-734 6852, Sutherland House, 5/6 Argyll Street, W1E 6EZ.

Executive Selection Consultants BIRMINGHAM, CARDIFF, GLASGOW, LEFDS, LONDON, MANCHESTER, NEWCASTLE and SHEFFILLD.

#### RETIRING MANAGINS DIRECTOR

CHIEF EXECUTIVE

desiring further active career is invited to enquire for information re top vacancies growing international charity. Salary and expenses, London or U.S.A. based. Entrepreneurial ability/management men and affairs indicated. Example: Overseas Project Director, London based, with three overseas

Telephone Founder's Office, 01-493 3397 or 01-499 6652, or write: Help The Aged and associated charities, 32. Dover Street, London W1A 2AP. Readers willing to help worthwhile cause please draw this advertisement to the attention of recently retired or retiring top businessmen.

visits yearly.

# Corporate Finance

Hill Samuel & Co. Limited is expanding include the initial identification of its activities in the Corporate Finance field in the UK, and as a result, there are two new appointments to be made. The first vacancy is for a Young Accountant or Solicitor, aged between 25 and 29, with a good honours degree who has had relevant post qualification experience in fields related to Corporate Finance. Alternatively similar experience may have been obtained in industry. The second is for an Acquisitions Executive whose responsibilities will

possible acquisitions and any necessary financial appraisal. Applicants in their mid to late 20's should demonstrate that they have gained sound practical experience either with a firm of stockbrokers or in another financial institution. An attractive remuneration package will be negotiated including mortgage facilities, BUPA and an excellent noncontributory pension scheme. Please write with full career details as soon as possible to:-

R. C. G. Gardner, Chief Personnel Officer, Hill Samuel & Co. Limited, 100 Wood Street, London EC2P 2AJ.

All applications will be treated in the strictest confidence.

## PANMURE GORDON & CO.

**INVESTMENT ANALYST** 

We are looking for an analyst to join our team covering chemicals, pharmaceuticals and textiles. A university degree (or appropriate professional qualification) and some experience in investment analysis, not necessarily in related fields, are the minimum qualifications required. The successful candidate will be expected to acquire a broad expertise in these sectors and to become a specialist in textiles and fibres. ...

> Applications with C.V. should be made to: G. F. Hallwood at 9 Moorfields Highwalk London EC2Y 9DS

# LEGAL AND PERSONNEL **ADMINISTRATOR**

ASEA Limited, the UK subsidiary of the International Swedish sibility for personnel administration.

first class opportunity for the successful candidate to become involved in the UK development of the Company and enlarge his or her responsibilities in line with future growth.

An exceptionally generous remuneration package, with additional

Please write in the first instance to: N. Jenkins, America Square Associates Ltd., 34 Queen's Gate Place Mews, London SW7 5BQ or telephone 01-589 1589.

#### DREXEL BURNHAM LAMBERT INCORPORATED

A vacancy has arisen in our London Office for an experienced person to handle the settlement of our American Securities business.

This is a position of great responsibility and applicants should be familiar with securities settlement procedures, dealings in currencies and U.K. Exchange Control regulations.

Please apply in writing to:

Mr. A. L. Forward, Winchester House, 77 London Wall, London, E.C.2.

Replies will be treated in the strictest confidence.

## CHARTERED SURVEYOR WEST AFRICA

c. £16,000 plus allowances

Qualified Chartered Surveyor, probably over 30, married and with considerable experience in West Africa or similar area to manage office in large urban centre. General management, valuation, project finance and construction experience at senior level desirable. Usual free housing, passages and fringe benefits.

> Please send curriculum vitae to: The Advertiser (Ref. JM) 19, Grosvenor Place, London SWIX 7HP

electrical engineering group, has a requirement for a Legal and Personnel Administrator who will report to the Financial Manager and Company Secretary and advise on legal aspects of the Company's work in commercial matters and take respon-This is a new position, based in Central London, and offers a

The person suited to the position will probably be a qualified Chartered Secretary aged 27-30 with up to date knowledge of commercial, employment and pensions legislation.

large company benefits, is negotiable.

# NEWLY QUALIFIED **ACCOUNTANCY APPOINTMENTS**

21st September

The Financial Times proposes publishing three pages of Newly Qualified Accountancy Appointments on 21st September following the publication of the results of the Finals Examinations

If you are expecting to qualify, the Financial Times intends to publish the widest possible range of opportunities open to you.

If you are recruiting "Newly Qualifieds" the advantages of advertising in the Financial. Times are considerable—the cost is £14 persingle column centimetre—copy can be accepted until the day before publication—and the Financial Times has astablished an anyiable. Financial Times has established an enviable reputation in this field.

For further details, including reprints of previous features, contact: James Jarratt.

on 01-248 4601 (direct line) ... or 01-248 8000 ext. 588

**FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER** 

MGALLERIES

#### **BUSINESS RESEARCH**

Up to £7,000 negotiable + car

Age: 25-30 Central London

Our client is a medium sized profitable quoted U.K. company operating in the health care sector. They wish to appoint a Business Research Assistant to their Group Planning Unit. The appointes will have the specific responsibility for investigating and analysing a wide range of business research projects proposed by the operating divisions and will play a

Candidates should have a good Honours degree and must have at least three years relevant experience in a medium or large company. This experience could have been acquired in a specialist business research, development or planning function. Some travelling within the U.K. is involved. There are attractive prospects for promotion to a line

Please send a comprehensive career résumé, including salary history and quoting ref. 941 to:

W. L. Tait, Touche Ross & Co., Management Consultants, 4 London Well Buildings, London, EC2M 5UJ, Tel: 01-588 6644.



International financial institution, located in Paris, seeks an insurance industry analyst:

-28 to 35 years old;

—At least three years' experience with a good working knowledge of Life and non-Life accounting methods as practised on the Continent;

-- Must speak French; a certain fluency in German would be a plus.

Job function will be to write in-depth reports on the major European insurance companies with special emphasis on comparative judgment and stock market appreciation.

Remuneration in function of experience and indexed to cost of living.

Scud c.v. and oboto: No. E.12.967 CONTESSE PUBLICITE 20, Avenue de l'Opera—75040 PARIS CEDEX 01—FRANCE

#### FOREIGN EXCHANGE DEALER

The National Bank of Detroit has an immediate vacancy for an able dealer with a minimum of three years' experience in the following areas:

Canadian Dollar/U.S. Dollar and a major European currency Preferred age range 25-30.

Salary commensurate with experience. Other normal bank benefits. Please write giving full details of experience to: The General Manager, National Bank of Detroit, 28 King Street, London, EC2P 2AU.

**CONTRACTS AND** 

NOTICE TO PROSPECTIVE SUPPLIER

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**TENDERS** 

#### UNIVERSITY OF NAIROBI Applications are invited for the following posts in the DEPARTMENT OF BUSINESS ADMINISTRATION.

ASSOCIATE PROFESSOR. Applicants

should hold a Doctorate in Business Administration (preferably Market-ing). Management or a related Social Science field and must have considerable teaching and research experience. Applicants should have a recognised publishing record and be a recommed publishing record and be capable of providing both academic and curriculum development leadership to the more immer because the more immer because the members. The appointer will be expected to teach in one of the following areas in either the understandant (B-Com.) or the graduate and personner administration. The appointee will also be expected to guide the research activities of students in the M-B-A, programmer and also specialise in either Business Policy or Personnel Management.

SENIOR LECTURER Applicants

Policy of Personnel Management.

SENIOR LECTURER. Applicants should have at least a Masters Desire in Business Administration. Management of a related Social Science and traching, research and significant administrative experience of professional qualifications. The appointed will be expected to teach at the understandant and postgraduate level and have the expected to sive academic and research leadership in some of the following areas:—Personnel Administration, Labour Relations, International Business, Organisation Theory and Rehaviour Marketing.

Public Enterprise Management.

Salary scales: Associate Professor.

COUNTAR

The transfer of

#### **ART GALLERIES**

FIELDBOURNE GALLERIES, 63. Queen's Grore, St. John's Wood, 586 S500. LANDSCAPES by Royal Academicians. MARBLE Carrings YOMA SASBURGH. FINE ART SOCIETY, 148, New Bond St., W 1, 01-629 5116, SUMMER EXHIBI-LY QUALIF

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COMPANY

NOTICES

Morgan Guaranty Trust Company o

**OBITUARY** 

### INVESTMENT MANAGEMENT/RESEARCH Mid to late 20's

Our client, a major and well respected financial institution, wishes to expand its investment staff.

It is currently seeking graduates or those professionally qualified with two to five years' experience of investment work. The job to be filled combines assisting in the management of portfolios invested around the world and researching for others in the organisation making investment decisions.

The remuneration package will stand comparison with any in the City.

Please send a detailed career résumé, including salary history, quoting ref. 942, to:

> W. L. Tait, Touche Ross & Co., Management Consultants, 4 Lendon Wall Buildings, London, EC2M 5UJ. Tel:01-588 6644.



We are the UK subsidiary of an American parent engaged in the manufacture and supply of a range of speciality products to the pharmaceutical, food and allied industries.

Applications are invited for this Senior Managerial position: Reporting on a direct basis to the Managing Director, the successful applicant will be responsible for all aspects of the Financial Management of the company.

- PREPARATION AND PRESENTATION OF BUDGETS, FINANCIAL AND BUSINESS PLANS
- MONTHLY PREPARATION OF MANAGEMENT
- ACCOUNTS
- CASH FORECASTING

IRISTIAN AID invites applications from qualified accountants for the post of Chief Accountant of this oversess and

of Third World are sought in applicants who should write for details to the Director. Christian Aid, P.O. 8ox No. 1, London. S.W.9.

now handling £5m annually. Duties include administering finance department of 10 people. Christian

- COSTINGS
- LIAISON WITH USA PARENT AND ATTENDANCE AT ANNUAL FINANCIAL MANAGEMENT MEETINGS
- CO-ORDINATION OF MANAGEMENT INFORMATION SERVICES IN ACCORDANCE WITH ESTABLISHED PLANS TO INTRODUCE A COMPUTERISED SYSTEM
- INVOLVEMENT IN COMPANY AND PRODUCT ACQUISITIONS.

Applicants must be qualified accountants with at least 5 years industrial experience. A strong personality and self motivation are

The successful applicant will be joining a dedicated team of professional managers and we envisage a total remunerative package of £9,500.00 which includes a company car, pension scheme etc. Please write in confidence, enclosing a detailed curriculum vitae, to:-Miss Irene Scorer. Colorcon Limited. Orpington Trading Estate, Sevenoaks Way, Orpington, Kent BR5 35R.

## International **Senior Accountant** for Europe's No1

We have a challenging opening with considerable promotion prospects as well as the opportunity to travel extensively for an ambitious and well qualified Accountant with Hertz. Europe's number one Car Rental Company.

The successful candidate will be based at our West London European Headquarters, spending some 60%-70% of his or her time abroad, mainly in Europe. Responsibilities will be varied and include the review of European subsidiaries' monthly reports, the co-ordination and preparation of budgets, and ad hoc analyses both in London and Europe. The job obviously calls for someone with wide experience who has worked and preferably trained in a sophisticated accounting environment. At least 2 years' post qualification experience is essential and a working knowledge of at least 1 European language would be arrasset.

A starting salary in the region of £8,000 pa will be offered plus all the usual benefits associated with a major international company.

Please write giving full career and personal details to Ms W Skinner, Hertz Europe Limited, Isleworth House, Great West Road, Isleworth, Middx.



® THE No1COMPANY

#### COMPANY NOTICES

McCARTHY GROUP LIMITED

NOTICE TO SHAREHOLDERS PRELIMINARY PROFIT ANNOUNCEMENT AND DIVIDEND DECLARATION
The directors amounce that the unaudited group profit for the year ended
30th June. 1978, with comparable figures for the previous year, is as follows:—

OISTRIBUTION PROJECT
LOAN 1938-BR:
Espirito Santo Centrias pierricas S.A.
IESCELSA: and Centrias pierricas De
Santa Caparina S.A. (TCELESC) are
participating through retrials Electricas
Brasileira S.A. (TCELESC) are
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US\$130 Million, and EMELESC and
US\$130 Million, and pipy rively share
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the process of this ioan to the
purchase of codponent and materials
for their expassion programmes for
the years 1978 through 1981.
ESCELSA and CELESC rave contracted Companina Auxiliar ce Empresas
Eletricas Brasileiras (CAEES) to
to-oronante the application of the
loan funds.

The piggramme will cover the
capations of the sub-transmission and
distribution systems of the aforementioned companies. During the
next 13 months this will include the
procurpment of the undermentioned
groupp of equipment and materials:

Estimated
Value
Material Less: Interest
Taxation
Minority Interest 3 141 Disidends declared for the year: Interim ordinary groups of equipment and inates and second of the second of

Final ordinary

At the end of the third quarter of the financial year the vehicle monly at the level of the previous year sales increased approximally budget in March. As a resent, the total dealer market for the 12% ahead of the previous year and new unit sales for the group corresponding increase.

A comprehensive report concerning the group's trading activities will be contained, as usual, in the Chairman's review and the report of the directors to be issued at the end of September, 1978.

Final Ordinary Dividend No. 75

NOTICE IS HEREBY GIVEN that the final ordinary dividend No. 75 rate of 4.5 (four comma five) cents per there has been declared directors for the year ended 30th June. 1978, payable to holders of a signes registered in the books of the company at the close of business 22nd September. 1978.

must be loaded with the transer matter.

1978, at their address given below.

In terms of the South African Income Tex Act 1962 is amended), the Non-Resident Shareholders' Tax of 15% will be deducted by the company from dividends parable to shareholders whose addresses in the register of members are notside the Recubit of South Africa.

By Order of the Board.

By Crear of the Board.

CLOUSTON, A.C.I.S., Secretary, Registered Office:

Transfer Secretaries and Certification Office:

1101 Nedbank Circle,

177 Point Road,

P.O. Box 62318, Marshallow, 2107.

TRANSVAAL.



246 8026 for the FT INDEX

and **Business News Summary** 

#### **LEGAL NOTICES**

Nos. 02572, 02575 and 02575 of 1978
In the HIGH COURT OF JUSTICE
Chancery Division Companies Court. In
the Matters of MILANDER SECURITIES
LIMITED. FRAMUS CAUSICAL INSTRUMENTS! LIMITED and in the Matter of
the Companies the High Court of
the Companies Act and the Batter
SOTICE IS HEREBY GIVEN that
Pollung for the Windings-Co of the abovenamed Companies by the High Court of
Justice were, on the 18th day of August
1973, presented to the said Court by the
Commissioners of Costones and Excess of
London Rouse. 39-11 Mark Lanc.
The Court string at the Royal Court of
Pollung are directed on that the Said
Pollungs are directed on the Said Court of
Justice, Strand, London, WCA, 211, on
the 18th day of October 1973, and any
of the said Companies destrous to support or compose the making of any of the said
Company by the High Court of
the Pollung will be furnished by the
interest of hearing in person or by his
Coursel for that purpose: and a copy of
the Pollung will be furnished by the
interest of the Pollungs
NOTE—ADV person very be said
Postumes wour selected to the said
Postumes wour selected to the said
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of firm, or his or their solicitor (il any)
and compan. The served of the person
or firm, and must be sized by the person
of firm, and must be sized by the person
of firm, or his or their solicitor (il any).

No. 02282 of 1978

In the High Court of
Characty Division Companies Court. In
the Marter of Solity Propose;
and must be sized of the Pollung of the
court of the solicitor (il any)
and cours, the above-named notice in writing of his
pollung of the solicitor (il any)
and cours, the solicitor (i

The day of October 1978

No. BESSE of 1978

In the HIGH COURT OF JUSTICE Chancery Division Companies Court. In the Mater of SOUTH LONDON AGENTS IMPORT & EXPORTY LIMITED and in the Mater of The Companies Act 1948.

NOTICE IS REREEY GIVEN that a Pention for the winding up of the abovenamed Company by the High Court of Justice was on the 16th day of August 1978 presented to the said Court by H. & R. JOHNSON-RICHARDS TILES LIMITED. Turnstaß Stoke on Trem, and that the said Petition is directed to be heard before the Court sitting at the Royal Courts of Justice. Strand, London WCIA 2LL, on the 18th day of October 1978, and any creditor or contributory of the said Company destrous to support or oppose the making of an Order on the said Petition may appear at the time of their purpose: wiff a copy of the Petition will be furnished by the undersamed to any creditor or contributory of the said Company requiring such copy on parament of the regulated charge for the same.

JENKINS, DOGGETT & CO...

2 Mailords Rist.

Tadles.

Basingstoke,
Hamts, RGS6 410.

NOTE.—Any person who intends to appear on the hearing of the said Petition.

NOTE.—Aur person who intends to appear on the heating of the said Pentron must terve on of send by post to the above danted notice in writing of his

PERSONAL

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in white and nust standard

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# **BUSINESS OPPORTUNITIES BUSINESSES FOR SALE**

All Advertisements scheduled to appear in to-day's paper will be published on

Tuesday 5th September

APPOINTMENTS

## Reorganisation of Davy group

Mr. J. G. McMillau has been appointed BBC TELEVISION'S appointed area manager at the head of variety. He takes over inner city area office of tomorrow from Mr. Terry Hughes NATIONAL WESTMINSTER who is leaving the BBC at his own BANK on the retirement of

DAVY INTERNATIONAL is to create two major operating groups—engineering and construction and engineering and construction and engineering and dustrial design panel, and as chairmanufacturing. All the present companies will be within one or other of these two groupings.

It is also proposed to change the title of Davy International to Davy Corporation. This will letter and the title of Davy International for use by the new engineering and construction group and the engineering and construction group and the engineering industries. The new names are business planning for J. Lyons and expected to become effective on September 25.

At Davy International Mr. A. M. ITT BUSINESS SYSTEMS UK.

September 26.
At Davy International Mr. A. N.
Whiting will be chief executive;
Mr. S. Burns becomes chief executive;
Mr. S. Burns becomes chief executive;
Mr. Whiting; and Mr. M. J.
Milner will have the new position of corporate development officer. Systems and Communications of corporate development officer. Systems and Communications Davy Engineering Inustries will be managed by Mr. L. Ashworth as chief executive; Mr. E. P.
McTighe as deputy chief executive; and Mr. J. D. Eccles.

Mr. C. G. N. Ryder has been appointed deputy chairman of the CHINA NAVIGATION COMPANY from tomorrow. The company is a member of the Swire Group.

Mr. S. Burns becomes chief executive in the group of business and market development, ITT Business are development, ITT Business and Communications of coups and is succeeded as marketing director of Dr. P. Business Systems of Corporate development of the Business Systems and Communications of coups, and is succeeded as marketing director of Dr. P. Business Systems and Communications of Coups, and is succeeded as marketing manager. Mr. Beoffrey Meadowroff becomes head of the group's data systems division at Cockfosters. He succeeds Mr. Jim Foord, who was recently appointed chief executive.

Mr. S. A. Briggs has relinquished his position as commany secretary

Mr. D. Lewis Macdonald has his position as company secretary been appointed production director and Mr. Trefor J. Watkins, financial director, of RACAL DATACOM.

Mr. S. A. Briggs has relinquished his position as company secretary of BERNARD MATTHEWS but remains financial director. He is succeeded as secretary by Mr. DATACOM. Mr. S. A. Briggs has relinquished

BANK on the retirement of request to return to production as a freelance.

Mr. Peter Shuttleworth bas The Secretary for the Environbeen appointed a director of ment has appointed Mr. Ronald LINDUSTRIES from tomorrow. Groves and Mr. Lewis Rose to be Mr. Charles Pearce has been appointed a director of Ti Ar. Groves is chairman and chief ACCLES AND POLLOCK and Mr. executive of the International K. I. T. Richardson has become director of marketing.

BRITISH RAILWAYS BOARD Mr. Hugh Rafferty has been states that following the comple- appointed manager of the city tion of his term of appointment office of the BANK OF IRELAND as a part-time member of the in Coleman Street, London.

#### **UK ECONOMIC INDICATORS**

ECONOMIC ACTIVITY-Indices of industrial production, manufacturing output engineering orders, retail sales volume (1970= 100); retail sales value (1971=100); registered unemployment (excluding school leavers) and unfilled vacancies (000s). All seasonally adjusted.

		Indi. prod.	Mfg. output	Eng. order	Retail vol.	Retail value	Unem- ployed	Vacs.
	1977 2nd atr.	102.1	103.2	106	102.5	222.0	1,330	163
	3rd qtr. 4th qtr. 1978	103.0 102.4	104.0 103.4	106 106	104.3 104.4	234,2 239,4	1,418 1,431	151 157
-	1st qtr. 2nd qtr.	103.5 104.3	103.8 104.8	98	106.3 107.9	246.0 254.2	1,409 1,367	188 213
•	Feb. March	103.7 103.5	103.7 104.4	116 103	106.8 107.0	246.5 249.8	1,409 1,400	187 196
: :	April May June	105.4 103.3 104.2	103.8 103.6 105.0	104 117	106.7 108.4 108.6	250.3 255.2 257.1	1,387 1,366 1,365	204 210 217
	July August	101.0	100.0		110,5		1,37L 1,331	211 208

OUTPUT-By market sector: consumer goods investment goods, intermediate goods (materials and fuels); engineering output, metal manufacture, textiles, leather and clothing (1970=100); housing starts (000s, monthly average).

a		Consumer	lnvst.	Intınd.	Eng.	Metal	Textile	Housg.
- T-		goods	goods	goods	output	mnfg.	etc.	starts*
of 181 be	1977 2nd 4tr.	113.4	98.1	105.2	99.2	80.5	100.2	25.1
of i	3rd qtr. 4th qtr.	113.5	98.6 98.0	104.9 101.9	100.1 99.4	83.3 74.8	100.7 100.0	25.4 20.7
16. 14 170	1978	116.1	99.6	104.6	109.7	76.8	99.7	17.8
0T)	1st qtr. 2nd qtr.	116.8	99.0	106.9	101.2	83.1	100.5	26.7
- No	Jan.	116.0	100.0	104,0	101.0	75.0	99.0	17.4
	Feb.	117.0	99.0	106.0	101.0	78.0	100.0	15.3
07	March	117.0	100.0	104,0	102.0	78.0	100.0	20.6
LL	April	117.0	100.0	109.0	102.0	85.0	105.0	25.4
e:	May .	115.0	98.0	106.0	101.0	80.0	98.0	25.1
be	June	118.0	99.0	106.0	101.0	80.0	98.0	29.6

EXTERNAL TRADE—indices of export and import volume (1975=100): visible balance; current balance; oil balance; terms of trade (1975=100); exchange reserves.

<b> </b>	Export volume	import volume	Visible balance	Current balance	Oil balance	Terms trade	Resv. US\$ba*
1977 2nd qtr. 3rd qtr. 4th qtr. 1978	118.0 124.1 117.9	109,8 106,4 102,6	-764 + 54 + 45	-365 +537 +486	- 745 - 602 - 657	100.3 101.0 102.4	14,9 13.4 20.39
1976 181 qtr. 2nd qtr. Feb. March April May June July	102.3 122.6 127.4 121.4 125.9 119.9 121.9 126.9	114.3 110.0 111.3 116.9 104.1 114.1 111.9	-574 -139 + 43 -279 +187 -218 -108 -150	-305 +221 +132 -189 +307 - 98 + 12 - 30	646 420 203 209 149 155 116 229	105.1 104.4 104.8 104.8 104.0 105.1 104.1	20.63 16.75 20.7 20.32 17.04 16.66 16.54 16.74

FINANCIAL-Money supply M1 and sterling M3, bank advances in sterling to the private sector (three months' growth at annual rate); domestic credit expansion (£m); building societies' net inflow: HP, new credit; all seasonally adjusted. Minimum lending rate (end period).

	M1 %	M3 %	Bank advanc		BS inflow	HP lending	MLR
1977						_	
20d qtr.	24.8	14.9	5.5	+ 769	1,290	1,047	8
3rd qtr.	28.0	10.4	20.3	+365	1,084	1,149	7
4th qtr. 1 <b>9</b> 78	23.2	12.6	8.8	+698	1,565	1,189	8 7 7
ist qir.	24.7	24.0	17.5	+1.818	1.049	1,260	61
2nd gtr.	8.7	15.9	24.8	+2.893	694	1.393	10
Feb.	26.8	25.5	17.9	+963	353	418	61
March	24.7	24.0	17.5	+597	308	413	
April	19.I	24.7	12.6	+1,432	335	463	6 <u>1</u> 7 9
Мау	13.2	17.4	18.3	+1.124	212	471	ė
June	8.7	15.9	24.8	+337	147	459	10
July	9.3	9.5	25.9	+114	180	200	19

INFLATION—Indices of earnings (Jan. 1976=100); basic materials and fuels, wholesale prices of manufactured products (1970=100); retail prices and food prices (1974=100); FT commodity index (July 1952=100); trade weighted value of sterling (Dec. 1971=100).

		Danie	TATE I.				
{	Earn-	Basic	Whsale.	Torre	<b>-</b>	FT*	
10-5	ings*	matis.º	mnfg.¥	RPI*	Foods	comáty.	Strig.
1977							
2nd gir.	114.5	347.7	259.2	181.9	191,1	250.0	61.6
3rd qtr.	11 <b>6</b> .1	349.5	267.7	184.7	192.1	239.9	61.8
4th atr.	119.9	330.6	272.1	187.4	193.3	234.2	63.3
1978							
1st atr.	123.1	326.7	279.0	190.6	197.3	238.51	64.6
2nd qtr.	129.9	340.7	284.6	195.8	203.8	242.27	61.5
Feb.	122.7	324.2	279.2	190.6	197.3	224.86	66.0
March	125.0	331.0	280.6	191.8	198.4	238.61	64.1
April	127.2	337.4				238.94	
			282.7	194.6	201.6		61.8
May	129.4	34L5	284.6	195.7	203.2	250.67	61
June	133.1	343.1	286.3	197,2	206.7	242,27	61.5
July -		340.2	288.7	198.L	206.1	237.68	62.5
August		-				246.8	62.4
]							

# 17—Battery Battery Charger 18—Tes See And Laboratory 18—Tes Latisment Instruments: 1.515 19—Hot Line Maintenance Couloment Communication Equilament Communication Equilament Communication 20—Radio Communication Equilament Communication Equilament Communication 22—Tes Substation 1.293 23—Gob Virgulated Conductors 1.477 25—Gob Virgulated Conductors 1.477 25—Installators Ususpension and Pedesal Types 1.367 25—Goondlog System (Steel 25—Various Small Items including Meteorological System Coll Station Files Communication Coll France College College College College Phase Generator Energyency Generator Single Phase Generator Energyency Generator So RVA mountes Cn

TOTAL

## HOME NEWS

# Court to decide technology ban on UK concern

National Enterprise Board, he of the company, founded Mostek restrained permanently from in 1969, though he had severed acquiring and using trade secrets his connection with it for some

Mostek succeeded this week in technology.

16K RAM (random access gaining temporary injunctions Mostek has become a success-against lumos on two counts ful company, employing 4.500 memory), the most advanced memory in mass production.

relating to trade secrets, but people with a turnover of \$70m. The company recently won a

heart of the dispute are Mr. Inmos plans to produce a Ward Parkinson a senior design engineer; Mr. Douglass Pittman, a draughtsman; Mr. Dennis memory—the 64K RAM—which has a capacity for 64,000 "bytes" memories, though definitions of micro-computer will be a parallication of the most advanced random access when the most advanced random access and micro-computer will probably take ITT into the ranks of the most advanced random access when the most advanced random access when the most advanced random access and the most advanced random access when the most advanced random access and the most advanced random access when the most advanced random access and micro-computer when the most advanced random access are also access to the most advanced random access and micro-computer when the most advanced random access and micro-computer when the most advanced random access are also access to the most advanced random access and micro-computer when the most advanced random access are also access to the most advanced random access and micro-computer when the most advanced random access are also heart of the dispute are Mr. Mr. David Wooten, an application or units of information.

Joseph Mr. Mostek, with ITT and other Parkinson had held a senior companies in the U.S. and Japan,

A COURT in Dallas, Texas, is to been director of memory design hear a plea next week that engineering since 1976. Inmos, the U.S.-based micro- Dr. Richard Petritz, another electronics subsidiary of Britain's Inmos director and the creator

acquiring and using trade secrets and claimed as belonging to Mostek, years.

Dr. Petritz and Dr. Schroeder

but victory for Mostek

The hearing has been delayed to define trade secrets for itself, for Mostek to collect more evidence. An adverse judgment might jeopardise Inmos's future operations.

The hearing has been delayed to define trade secrets for itself, will also be spent on a wafer fabrication plant at the companying jeopardise Inmos's future of knowledge than that which was actually secret.

Thus information available

The new Freiburg plant will also be spent on a wafer fabrication plant at the company's intermetall plant in Freiburg, West Germany.

Mostek may also seek to have from a variety of sources would be used to make about 4,000 lnmos restrained from employ be debarred from use by lnmos wafers—the backing for inte-Inmos restrained from employing Mostek personnel, including specifically, putting it at a severe four former Mostek employees disadvantage in relation to now contracted to Inmos whose most companies from Mostek gave rise to the current case.

Mostek succeeded this week in technology.

Mostek succeeded this week in technology.

be debarred from use by inmos wafers—the packing for micro grated circuits—a week.

Footscray, which specialises in the manufacture of microcompanies, will expand its production, especially of the lack RAM (random access

osition. are designing the next-generation.

However, one of three Inmos chip. Large profits will go to directors. Dr. Paul Schroeder, the company which can first pro-had until recently played a key duce a RAM that performs well role in Mostek, where he had in a variety of functions.

# **Land-Rover meets** expansion target

BY KENNETH GOODING, INDUSTRIAL CORRESPONDENT

sion programme at BL's Land around 15 per cent of the world Strathclyde, our Glasgow Corres-Rover subsidiary is a Brass and four-wheel-drive market, but pondent reports. should raise Range-Rover capa- faces increasing competition city by 50 per cent and add 10 from the Americans and per cent to Land-Rover output Japanese. by next spring.

Mr. Mike Hodgkinson. Land about 300 Range-Rovers and Rover's managing director, gave 1,350 Land-Rovers a week, this news to the 9,000 employees

Mr. Hodgkinson said that 58m

Productions now stands at

this news to the 9,000 employees yesterday, when he also provided a detailed breakdown of how the first phase cash of £30m is to be spent.

Mr. Hodgkinson said that £8m of the first-phase money will be spent at the South Works, Solibull, to expand painting facilities and improve Land-Rover

They are likely to receive Birmingham.

sympathetic consideration, given that Land-Rover can sell all it ham, a new VS engine assembly produces and the waiting list for track has been installed with a its vehicles stretches up to two capacity of over 2,000 units a

### Records go in Scotland

SOTHEBY'S annual August Bank "Wuter Lilies." painted in 1903 Manufacturers, which is camHoliday sales at Gleneagles by William MacGeorge: £3,300 Manufacturers, which is camHotel in Scotland were a great for "Washing the Creel" by
success, bringing in £293,803 Robert Hutchison: £3,200 from
success, bringing in £293,803 Robert Hutchison: £3,200 from success, bringing in £293,503 Robert Hutchison; £3,200 from over the liwo days, with five artist records among the pictree of the Fine Art Society again, for artist records among the pictree of the Artist and a John Wells: and £3,000 for record, was £10,000 paid by the "Portrait of the Artist and his Promenade" by George Henry, 1910.

Apart from the records, £5,500 third in the Royal from the Royal from the Tryon Gallery for Girl," also by George Henry.

The other records were £6,500 the same sum secured "A Geisha from the Tryon Gallery for Girl," also by George Henry.

Stage Three pay settlement for last year, although the rate of export earnings of £2.1m.

Mr. Dennis Statham, the imlast year, although the rate of export earnings of £2.1m.

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Mr. Dennis Statham, the inlast year, although the rate of export earnings of £2.1m.

Mr. Ronnie Swayne, president the fine council, acknowledge the industry's world of the council, acknowledge the industry's world of the council, acknowledge the industry's world of the council, acknowledge the industry's vorld of the council acknowledge the industry's vo

#### SALEROOM BY ANTONY THORNCROFT

### | ITT plans to invest £5m at British factory

By John Lloyd

ITT, the U.S.-based multinational is to undertake a £5m iovestment programme at its semiconductor plant at Footscray. South East London.

It is understood that negotiations on Government aid of a further £1m are nearly complete The expansion is part of a

The new Freiburg plant will

relating to trade secrets, but people with a turnover of stom attempts to stop Inmos hiring last year. It specialises in Mostek employees, or continuing advanced computer technology. Europe. It is also thought likely that the company will develop its own area in which Inmos will version of the 64K RAM, the next generation memory.

next generation memory.
This expansion will probably what constitutes a volum ducer vary.

#### Computer staff needs studied

FUTURE MANPOWER needs of the UK computer industry will be studied by the Electronics Sector Working Party of the National Development Office.

The £30,000 study is aimed at assisting the improvement of employees was a valuable incennot worsen them. Sir Keith

● HONEYWELL is to start UK THE FIRST phase of an expanCurrently, the company claims

| range of mini-computers at its ended. |
| Scottish plant at Newhouse, | The

Frade, for an urgent meeting,

The confederation, so far, has

stayed largely on the sidelines, but has now been provoked into

action by a memorandum circu-lated by the recently-formed Federation of British Cutlery



the Tyneside yesterday by Metro-Cammell of Birmingham. Altogether, 88 of the cars will operate on the £161m Tyne and

The initial phase was due to open next spring, but because of inter-union dispute it will probably be delayed, says Tyneside Passenger Transport Executive.

Rail and bus drivers' unions are arguing over who should drive the "supertrams," although they have agreed in principle that work should be shared.

There have also been spasmodic delays on construction work for the light railway, believed to be the first of its kind

# **Monday Club urges** direct tax cut

BY DAVID FREUD

the UK's position as a producer tive and called for a reduction Joseph, opposition spokesman on of computers and computer technology.

The National Industry, said yesterday.

Enterprise Board should be Sir Keith said wasteful public. ● HONEYWELL is to start UK abolished and Government equity spending was paid for through production of its new Level 6 participation in private industry bigher taxes, additional borrowrange of mini-computers at its ended.

**Cutlery prices 'could treble'** 

Michael Meacher, a junior where it remains strong, such factories, claims that the take-Minister at the Department of as the production of traditional over could result in 50 new jobs.

**British ships set record** 

BY IAN HARGREAVES, SHIPPING CORRESPONDENT

A BIG cut in direct taxation is income tax should be examined called for by the Monday Club, closely. The investment income the independent Conservative surcharge, should be abolished. Two tax changes of consider

The group said in a policy able advantage to people run-paper released yesterday that the ning small husinesses would be cut should be accompanied by a the indexation of capital gains simplification in the administrator tax and an increase in the busi-tion of direct taxation, even if ness relief provisions of capital this meant increasing direct transfer tax.

The concept of a negative other words, the Government has income tax should be revived been reducing personal spending

yesterday, when he also provided a detailed breakdown of bow the first-phase money will be spent.

It is part of an overall £250m investment aimed at nearly doubling production of both Land-Rovers and Range-Rovers by 1952.

Plans for the second phase, involving expenditure of £253m.

Plans for the second phase, involving expenditure of £250m involving expenditure of £25 the industry, over the issue of that they would have to go with England cutlery group, is making ing days lost in stoppages in stoppages in July protection.

The importers, who have as to spend more than they could with the acquisition of Sanders

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The importers who have as to spend more than they could with the acquisition of Sanders of the National Union of Rail Lordon Transport.

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The importers who have as to spend more than they could with the acquisition of Sanders of the National Union of Rail Lordon Transport.

The importers, who have as to spend more than they could with the acquisition of Sanders much as 90 per cent of the afford."

and Bowers, producers of top market in some products, now are to put their own case to the industry's delivery performance, Mr. Price, whose company want to put their own case to the industry's delivery performance, Mr. Price, whose company gear at 104 against the June of the figure of 181.

The decision was made after scheduled to begin further talks the figure of 181.

The decision was made after scheduled to begin further talks the figure of 181.

Miners fight TUC bid to halt incomes clash

LABOUR NEWS

the transport union's amendment That would leave Congress

with little to argue about in its economic debate, since a very large majority of the TUC

large majority of the TUC workers showed its appreciations appears to agree on a tion of the latest pay phicy policy of passive resistance to yesterday by voting itself hig the Government's incomes pay rises to take effect eight policy.

As it stands, the miners' for the union's full-time motion is probably the most officials. hostile to the Government on the Salary increases of between agenda. It asks Congress to 6 and 20 per cent will be paid declare its total opposition to from next March, in a move any proposed extension of the Ruking union officers' pay with social contract into Phase Four."

Many union leading armie that management grades. any proposed extension of the linking union officers social contract into Phase Four." that of National C Many union leaders argue that, management grades.

By Pauline Clark, Labour Staff

MINERS' leaders are to resist while income control must be at all."

TUC efforts to stop their attack- opposed, the social contract as This did not mean the union ing the social contract at ract such (under whatever name) can was not going to work for a week's Trades Union Congress and should continue. The trans Labour victory at the General in Brighton.

The executive committee of mise the risk of Congress's after Congress. "You are the National Union of Mine- formally declaring the social con- entitled to criticise your friends," workers refused yesterday to trans anded by substituting the he said.

the National Union of Mine formally declaring the social conworkers refused yesterday to tract ended by substituting the he said.

entertain an amendment to their words "incomes policy."

Yesterday's executive noted words incomes policy."

Yesterday's executive noted up by the Transport and Mr. Gormley said: "We think miners' nomince to be adopted General Workers' Union and that this question of the social for the Parliamentary seat of designed to take the heat out contract has been deluding a lot Pontefract, a mining town. Mr. of the miners' attack.

However, Mr. Joe Gormley, making a lot of progress. We "very worried" at the way it the miners' president, did not are not making any progress was losing seats.

The Matter of the Matter of the Social for the Parliamentary seat of people into thinking we are Gormley said the union was of people into thinking we are Gormley said the union was the miners' president, did not are not making any progress was losing seats. Pay rise for NUM leaders THE EXECUTIVE of the National Union of Mine-workers showed its apprecia-

president, will receive more than £10,000 a year but the president's salary band will have a maximum of £13,600

Area presidents like Mr. Arthur Scargill of Yorkshire will be on a band of £7,393 rising to £9,400 after three years. Junior officials will get between 56,500 and 28,300 a

## Dock strike State workers fight halts BL 5% wage guidelines car exports

BY PHILIP BASSETT, LABOUR STAFF

been forced to cancel calls at the private sector's Although the industrial atomic challenge to Stage Four.

Mr. Mick Martin, public workers are numerically small, will lose confidence in Britain's sixth largest cargo port.

Yesterday, a Norweglan vessel, was unable to pick up the Bicars for export to the U.S.

June total

In work

below 1977

THE NUMBER of people employed in production industrial provided with public sector and for the industry to increase rates from the lower-paid upwards.

The claim includes an increase this month.

tion of direct taxation, even if ness relief provisions of capital this meant increasing direct transfer tax.

The group said that corporations to create and expand advanced corporations to create and expand advanced corporation tax should be abolished their businesses and employees to increase their output.

The Tory aim of cutting to increase their output.

The issue of shares to employees the mean way advanced corporation to create and expand to increase their output.

The issue of shares to employees was a valuable incentive and called for a reduction. Enterprise Board should be abolished and Government expenditure would for the U.S. joined the growing to the growing to the growing to the group said that corporation tax.

By Pauline Clark, Labour Staff

ABOUT 1,500 BL cars bound for the U.S. joined the growing to the first public-sector challenge to its Stage Four 5 per cent craftsmen's increase, if agreed, stock of stranded cargo in Southampton docks yesterday as 9,000 atomic power workers in state-owned concerns, whose reduction in the working week, at their businesses and employees

The Tory aim of cutting dockers went into its sixth day, the strike beyon strike per cent for some grades.

Further talks between strike per cent for some grades.

The success of the first public-sector challenge to its Stage Four 5 per cent craftsmen's increase, if agreed, to stranded cargo in Southampton docks yesterday as 9,000 atomic power workers in state-owned concerns, whose reduction in the working week. Further talks between strike per cent for some grades.

The claim is also for a state-owned concerns, whose reduction in the working week.

Further talks between strike per cent for some grades.

The success of the first public sector challenge to its stage four 5 por cent.

The claim is also for 6 pour into a stage of 20 per cent.

The dispute began with a minute of 3 per cent to state owned concerns, whose reduction in the working week.

Further talks between strike per cent for some grades.

The claim is also for 6 THE GOVERNMENT is facing to £84 a week with pro rata in-

management NUR official

# accepts pay deal

BRITAIN'S LARGEST union, the lary health workers £17.50 leave, an emphasis on flat rate Transport and General Workers' behind. Public administration rather than percentage increases, Union, yesterday accepted a workers in general earned only stage Three pay setflement for \$1 per cent of the average pay to protect the lower paid against its 90,000-plus members in the for all male manual workers. price rises during the course of industrial Civil Service and Pay settlements over the next a pay agreement, launched a major campaign on few years should press a number the union asked for a planning public service pay and employ- of points, including consolidation target of at least an extra 100,000 ment designed to create 500,000 of pay policy supplements into public service jobs a year for hasic rates, increases in holiday the next five years.

voted unanimously to accept the Government's final pay offer to 183,000 industrial civil servants, which would give consolidation of £8.60 of pay policy supple-ments into basic rates and a 9 per cent increase on those rates. The TGWU acceptance of the offer will lead the way for the

resolved under the settlement formula, though, is the position formula, though, is the position of pieceworkers, who work mainly in Royal "Ordnance factories. Though they are on higher levels of pay, under the current formula they have been offered a settlement equal to that offered to workers on the lawset hand lowest band. Union officials will discuss the

Union officials will discuss the pleeeworkers' position at a meeting at the TUC on Monday if nothing is resolved this week. The TGWU's booklet, launched yesterday, called Our Policy for the Public Sector, said that the "farce" of the industrial civil servants' negotiations for 1978 highlighted the need for "au ursent look at harszining prourgent look at bargaining procedures in the public service."
The union, which has around 220,000 members in its public services group, said that public service workers faced serious and unresolved pay problems.

Local authority workers, whose
Stage Four pay claim will be
drawn up early next month, are
£20 a week behind workers in
production industries, and ancil-

Dfls. 40,000,000.-54% bearer notes 1972 due 1976/1979

### BANK MEES & HOPE NV

As provided in the Terms and Conditions of the above mentioned notes Redemption Group No. I, amounting to Dfls. 10,000,000.has been drawn for redemption on August 23, 1978 and consequently the note bearing consecutive number I and all notes bearing a consecutive number which is 4 or a multiple of 4 higher than I are payable on-

October 2, 1978

Bank Mees & Hope NV (Central Paying Agent) in Amsterdam

Bank Mees & Hope NV 'in Hamburg

Banque Générale du Luxembourg S.A. in Luxemburg:

Neue Bank A.G.

August 31, 1978

# Expansion rate likely to slacken

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

current account between balance and a small surplus, a slight acceleration in the inflation rate and little change in the level of unemployment.

This degree of agreement does not mean, of course, that this is what will happen, but the wide-spread expectation of this outcome will influence both markets Gross domestic product and policy makers.

The main conclusion drawn by Consumer spending most analysis is that neither the balance of payments nor public Exports sector borrowing and monetary constraint allow much scope for imports a substantial fiscal stimulus in the Budget next spring. Indeed Current account (fbn) some commentators have suggested that existing spending Public sector borowing plans may have to be reined (£bn) back, though the National Institute has called for further re-

The forecasts are generally on the basis of existing policies, except that direct tax allowances are assumed to be increased next spring in line with inflation.

Percentage change

THE RATE of expansion of the UK economy is likely to slacken next year though the growth are should be better than in the forecasters are fairly builtsh and external performance should be better than in the projections of 10 forecasts of the UK economy carried out by a comparison of 10 forecasts of the UK economy carried out by various official, academic and commercial organisations.

The main feature is a wide measure of unanimity about the measure of unanimity about the projections concern the the unand differences fairly builtsh of payments. A surplus of each of payments account between a count between a current account between the third success of the soften was succeeded to by slightly slower growth in 1979.

The main feature is a wide measure of unanimity about the special of payments. A surplus of each of payments accounts of the latest of the sightly slower growth in 1979.

The main feature is a wide measure of unanimity about the projections are made. But there is at rates of expansion during the first half of this year.

The main feature is a wide measure of unanimity about the projections concern the the UK adult unemployment. The National Institute, for projection structure of a year.

The main feature is a wide measure of unanimity about the projections are made. But there is at rates of expansion during the office was to current account of the balance total will ruse slightly by the example, expects the rate of gustaminative of the account of the balance of the safety was acceptance. The main growth in 1979.

The main feature is a wide of the contract of the payments acceptance of the contract of the payments. A surplus of each of p

COMPARISONS OF FORECASTS										
_	Treasury (April)*	National Institute (August)	OECD		Chase Econo- metrics (August)	London Business School (June)	Henley Centre (August)	Phillips & Drew (August)	Wood Mackenzie (June)	Hoare Govett (August)
1978	2.00	3.1	2.75	2.6	2.1	2.40	2.90	2.7	2.5	3.30
1979	1.60	2.0	1,75	2.5	3.3	1,80	3,40	2.1	2.8	3.00
1978	5.90	<b>5.</b> 1	5.80	5.1	4.6	4.60	5,20	5.4	5.6	4.90
1979	2,20	2.3	1.00	3,5	3.0	2.50	4.30 -	2.3	2.5	2.90
1978	3.70	3,8	5.00	2.7	4.3	2.90	3,90	3.8	4.0	5.40
1979	5.80	29	4.60	1.6	3.1	4.70	4.70	4.0	4.8	. 6.03
1978	7_50	6,0	5,50	7.8	9.6	7.60	6,20	5.7	6.8	6.30
1979	8.70	3.D	4.00	2.4	5.8	6,40	5.30	3.1	4,5	5.80
1978	0.75	0.6.	0.95	below 0.5	-	0.65	0.20	0,4	0.0	0.85
1979	6.50	1.9	1.18	-	_	-0.05	0.16	0.0	0.3	0.96
1978-79	8,50	8.1		_	_	7. <b>7</b> 0	7.75	8.3	8.2	7.24
1979-80	_	8.4	٠	_		9.60	_	8.7	8.8	
1978	_	9,3	8,75	_		8.80	8,40	8.7	8,6 .	8.25
1979	_	11.2	7.50	_	_	11.70	9.20	10.9	9.8	8.25

\* Treasury and OECD figures for 1979 are for first half of year only and are changes compared with half of 1978 expressed at an annual rate, current account also at an annual rate. risons are for consumer prices except for Wood Mackenzie and Hoare Govett where

فيحذامن الممهل

In his Journals of a landscape pointer in Albania and Ilipria, Edward Lear wrote with enthusiasm of the country round Chrid, which he calls by the older name of Akhridha, as "a scene of placid splendour." In the middle of the last century that part of the Balkans was still Turkey in Europe. Boundaries were hazy; races intermingled. Lear calls the "great sheet of water" which is said to be the oldest and deepest in Europe "the first of Grecian lakes." but evidently considered himself in Albania. a country whose savage, splendidly attired inhabitants splendidly attired inhabitants were a source of contempt to his were a source of contempt to his Italian servant. Giorgio. But there were Turkish governors and officials to be called on, and many Greeks and others. distinguished by variously gorgeous and colourful costumes — small groups of such people often appear in Lear's water-colours. Obrid now lies in Varouslavien Ohrid now lies in Yugoslavian Macedonia, the Southernmost of the country's republics. The further shore of the lake is partly Albania—Sylvie Nickels summarised the complicated history marised the complicated history of the region in her travel article of August 12. Much has gone since Lear's time. The fortress crowning the hill is an empty shell—no trace of the Turkish governor's serail. The "majestic plane" in the middle of the town is still standing—just—but the people grouped below it no longer represent "every variety of picturesque human beings." There are, though, fezzes on the heads of the older males of the Turkish community, and though the land is hardly "spangled with minarets" there are still three or four mosques in Ohrid



**Berlin Theatre** 

# Comedy, Satire, Irony...

by RONALD HOLLOWAY

Christian Dietrich Grabbe's tion of Grabbe is twofold. There's

theatre as a whole.

Grabbe, in turn, was influenced Creative Writing has been set up by the young Goethe and Byron, at the University of Warwick, also by Shakespeare whom he attacked indirectly in his Arts Council, and an appointment of Shakespeare-Mania meat has been made the ward J.

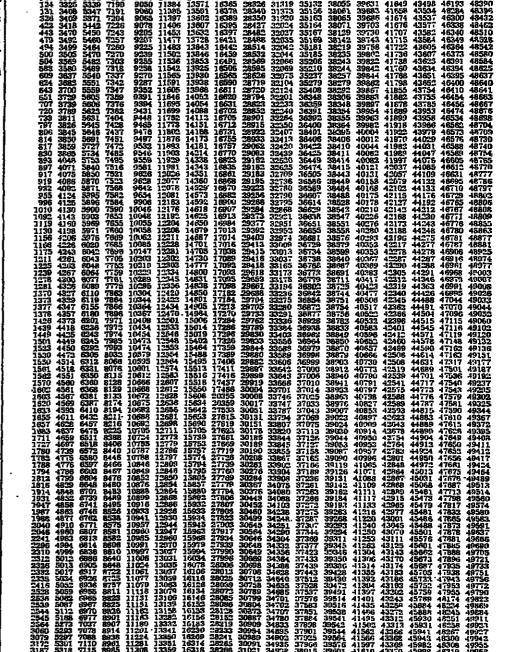
Comedy, Salire, Irony and great lun in store when actors Deeper Meaning (written in can bite the hands that feed Schiller in the same way as theatre, particularly the classics, Cyril Tourneur's The Recenger's are hammed to the limit in this Tragedy put down Shakespeare's ghastly portrait of a provincial

Albert Hall/Radio 3

# Les Boréades by Ronald CRICHTON

Rameau died in 1784 while his may not be the high drams and Jennifer Smith sang the heroine last opera. Les Boréodes was in human involvement of Hippolate rehearsal. The Paris Opera or Costor et Pollux, the varied woved by two Boread princes where the work was in preparation, substituted one by Campra, though Rameau's was well the pagan earthiness of The Feasts and Loudentes or a disabioned long before he died—there things prophetic of the sons of Boreas, god of the North something that matters incomparably more in Paris than in London. He was also, as a powerful and articulate personality, someone to be feared by lesser men Jealous of his long after some one of the fourth. There are in addition remark—along and touching in guished in the archives, unheard two Boread princes are involved with one that remained almost in its entirety until John Eliot with a cello continuo that uniformly clear and sweet, Jean-Gardiner gave a concert performance in the Elizabeth Hall been provided by Thea Musgrave. Boreland under the short due for the finally united an octogenarian composer, sor chestral swite made by Mr. A second hearing confirms first ariettes and a mass of wonder-limpressions that Les Boréades is an extraordinary achievement for of them familiar from the an octogenarian composer, orchestral suite made by Mr. A second hearing confirms first ariettes and a mass of wonder-limpressions that Les Boréades is ful, characteristic dances, some an extraordinary achievement for of them familiar from the an octogenarian composer, orchestral suite made by Mr. A second hearing confirms first ariettes and a mass of wonder-limpressions that Les Boréades is ful, characteristic dances, some an extraordinary achievement for of them familiar from the an octogenarian composer, orchestral suite made by Mr. A second hearing confirms first ariettes and a mass of wonder-limpressions that Les Boréades is ful, characteristic dances, some an extraordinary achievement for of them familiar from the an octogenarian composer, orchestral suite

## Philharmonia in good shape



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ne para

# Ruffled Feathers

by MICHAEL COVENEY

"They're adoring every minute of watching our marriage disintegrate" wails Bridget Bonivinni (Judith Paris) in a West End cinema bar on the night of a royal premiere. The film, starring Glenda Jackson and George Segal, apparently a sequel to A Touch of Class, has been scripted and directed by her ex-husband Dougal Young (John Castle). He joins her beneath a blow-up of Clark Gable that the George Segal part, a slob and a bore, is based not on himself, as she thinks, but on her frailties and shortcomings. He is Glenda Jackson.

This slight lunchtime piece by David Sullivan Proudfoot and Andrew McFarland is an odd neo-Cowardian confection to find on the London fringe. As many lines sparkle as fall flat, but there is one particularly good

Books page will appear in tomorrow's paper

sequence of dialogue climaxed by Miss Paris's defence of having auditioned 50 nude men for her work as a sculptor by remonstrating that the escapade was a justifiable part of her research on a Paraguayan war memorial. Apart from that, there are amusing flashbacks to a flamboyant matrimonial period of alcoholic bad temper, nicknames and putting the children

Under Bille Brown's direction, the playing of Mr. Castle and Miss Paris (who, incidentally, is Currently appearing in Annie as Warbuck's secretary) is well-controlled and cleverly paced. The writing's flimsily soft centre is nearly disguised, in fact, by the guarded energy on stage as the contestants stalk each other before flaring into combative life and, eventually, settling for compromise in the shape of working together on the next sinematic raid of their not very





Schiller in the same way as
Cyril Tourneur's The Recenger's are hammed to the limit in this Tragedies. It's a grotesque play town with a barbed-tongued poet annead at the literary world and social manners in Biedermeier times, one of the best satires in German literature and achieving in one deft swoop all that the disgruntled poet Heinrich Heincuried to accomplish over a lifetime in his Parisian exile. Friedrich Beyer's production at the Freie Volksbühne in West Eerlin fits in with the trend to revive Goethe and Schiller on the 100th anniversaries of plays they wrote.

Beyer comes from Heidelberg, where he produced Goethe's Faust I & II with a talented ensemble of young actors. The productions ran on consecutive evenings, preceded a similar dualsalute to Goethe by Claus Peymann in Stuttgart, and was matched only by Hansgünther Heyme's Urjaust and Faust II in two parts in Culogne. Since Carabbe's inspiration lets loose a character thrown out of the furnace known simply as "The Devil" throughout Comedy. Solire, Irong and Deeper Meaning. Beyer and his borrowed Heidelberg cansemble on the Volksbühne stage are able to parody a monster of their own making. This released pressure valve amounts to an hitarous spoof on German classical theatre as a whole.

Grabbe, in turn, was influenced to the University A new one-year Fellowship in Creative Writing has been set up at the University at the II in the production of the further as a whole.

Grabbe, in turn, was influenced to the University A new one-year Fellowship in the treating the wrong cloud of the period of creative Writing has been set up at the University at the II in the production of the further as a whole.

the venom was, in all proba-Brenton, the playwright, bility, aimed at the Schlegel-Aged 35, Mr. Brenton, a Tieck Romantic translations) graduate in English at the Born in Detmold, his attempts at University of Cambridge, has Born in Detmold, his attempts at University of Cambridge, has acting and free-lance writing in already won two professional cluding plays, brought little in awards: the John Whiting come as he hardly fitted the Award (1971) and the "Evening mould: he was a forerunner of Standard" Best Play of the Year Realism and Expressionism, Award for Weapons of Happiness whose heroes were given to (1976). In 1972-73, he was irony, violence, and a pessi-irony, violence, and a pessi-irosy, violence, and a pessi-irosy, violence, and a pessi-irosy, violence, and a pessi-irosy violence, and a pessi-irosy violence, and a Bessi-irosy violence and a

# How not to take

general. Neither has any long ments of competitiveness, of its term personal commitment to own and alternative products, British Aerospace or Rolls-Royce, had to be objective; when its whose futures hang on their judgements were allied to those decision. Long before the con- of utilities they were the most sequences of whatever they authoritative assessments. If it decide become apparent, they was wrong, it suffered, financiwill have moved to another job, ally and in loss of business."

Another striking illustration is taining competition. the decline and virtual collapse of the nuclear engineering industry. As Mr. Duncan Burn argues in an absorbing and persuasive book\*, the important question is the deep-seated distrust, by no trick again through Abdu.

The underlying problem is O'Gorman his handler, can use the deep-seated distrust, by no trick again through Abdu.

The Newmarket trainer, party, of competition and the profit motive. Many people seem has proved equally astute in

main utility, the Central Election, have achieved tricity Generating Board, wanted results. countries had done. Macmillan for the Trad While in the UK Ministers Research Centre, £12.00.

**V**|Radio

BBC

6.40-7.55 am Open University (Ultra High Frequency only). 9.55 Paddington. 10.00 Jackanory. 10.15 Help: It's the Hair Bear Bunch.

10.35 Big John, Little John. 1.20 pm On The Move. 1.30 Mister Men. 1.45 News. 4.18 Regional News for

England (except London). 4.20 Play School (As BBC 2 11.00 am).

5.35 Captain Pugwash.

or be in opposition, or have It is often said that the UK is retired from politics.

It is often said that the UK is too small to afford the luxury of DISCIPITES

It is another example of the sustain competing suppliers of muclear systems and competing suppliers of sustain resources and their province's production have the ultimate power them, are not subject to make the many others, and the many others, and they seem the should snap up the 76s house style: fruity but than many others, and they seem the style from France.

With private firms and co-opera originally imported from France than many others, and they sevent was sweetness and they become rarities, as in this from many others, and the 75 they sustain competing suppliers of the many others, and the 77 to 72: quite a steeple-province's productive are somably reliable chase, calling for careful as the observation of succession and strictly limited are often distinctly immature, soon tire the palate, and one of each province's productive are often distinctly immature, soon tire the palate, and one of each province's productive are often distinctly immature, soon tire the palate, and one of these, with the 75 the should snap up the 76s house explicit for they cannot all before them any others, and the 75 the should snap up the 76s house some title should snap up the 76s house explicit for the 95 the 100 prints are not exactly in many others, and the 75 the should snap up the 76s house some castomary sweetness and the story to careful as explicit for them agreeable. Yet sweet wines of taste either, for they are less alcoholic wine and tenth of them many others, and the 75s they are not subject to the 100 province's productive are often distinctly immature, soon title as the plant of them agreeable. Yet sweet wines of them agreeable. Yet sweet wines of them agreeable a British tendency to create state utilities, but in Britain resources British tendency to create stateowned monopolies and to
centralise decision-making in the
hands of Ministers. The
monopolies, and the Ministers
who have the ultimate power
over them, are not subject to
normal commercial disciplines,
but are highly vulnerable to
political pressures. To demand
that Ministers should be made
more accountable, as Members
of Parliament have been doing

utilities, but in Britain resources
and technical effort have to be
concentrated and some degree
concentration is unavoidable.

This is an assumption whi of Parliament have been doing certain products is too small to recently, is not the point. What support more than one purely is wrong is the system which national enterprise, but the need requires Ministers to take in associated in several of these industries is dustrial and commercial decisions of this kind.

#### Disinterested

The underlying problem servants and MPs and most to believe that the "national advocates of the mixed economy to believe that the despite all that bappened go on thinking, that by competition among commercial enterprises which stand to believe that the despite all that safeguarded by Ministers than by competition among commercial enterprises which stand to right?"

Mr. Burn shows that in the U.S. the Administration couraged manufacturers and utilities to make their decisions on nuclear reactors on the basis of commercial self-interest; competing approaches were well-comed. The British Government, by contrast, was the sole arbiter of reactor choice. It depended almost exclusively on technical advice from the Atomic Enveronment. The only way to counter these cial enterprises which stand to gain or lose financially from the decisions they make. According to this school of thought, it may look odd for Ministers to be deciding which civil airliner to build where a new steelworks should be located or what type go nuclear reactor to choose, but industrial decisions of this magnitude are too important to be left to industrialists.

The only way to counter these cial enterprises which stand to gain or lose financially from the decisions they make. According to this school of thought, it may look odd for Ministers to be deciding which civil airliner to build where a new steelworks should be located or what type Balidar colt will be attempting of nuclear reactor to choose, but industrial decisions of this magnitude are too important to be left to industrialists.

The only way to counter these

The only way to counter these lenergy Authority, discouraged competition and showed a marked preference for British-designed reactors even when the demonstrating how other counter these leading manufacturer and the lead leading manufacturer and the tries, relying more on competi-

Perils and pleasures of tastings

TASTING VOUNG wines is one as these wines are. Ideally all french wines, with which most of the occupational hazards of the occupational hazar

the same sequence must be started again at the next table. The most recent of these fastings are generally arranged by the Italian Trade Centre in Savile Row, Italy produces an all on soor of the wine trade. The wines are generally arranged by the Italian Trade Centre in Savile Row, Italy produces an all on soor of different and or speciality, white Prosecco industries and savile for speciality, white Prosecco industries. The Americans can be started again at the next table.

The most recent of these fastings are generally arranged by the Italian Trade Centre in Savile Row, Italy produces an analysis of the wine trade. They included the white Tocai are non-mousn number of different and verduzed del Playe, though they are not given too small to afford the luxury of competition in high-technology industries. The Americans can be appointed by the Italian competing suppliers of nuclear systems and competing uppliers of substances and competing uppliers of substances and competing uppliers of substances are substanced in the nuclear systems and competing uppliers of substances are substanced in the nuclear systems and competing uppliers of substances are substanced in the nuclear systems and competing uppliers of substances are substanced in the nuclear systems and competing uppliers of substances are substanced to the substance of the substance in the started again at the next table. The next table.

The most recent of these tast they are

# Much improved Abdu napped to win his seventh victory

MANOR FARM BOY, astutely getting up close home to defeat placed to land seven of his 11 General Atty in the Bagworth two-year-old races, took the Perebrown Stakes at Yarmouth a year ago at 9-2 on and it will be interesting to see if Bill O'Gorman his handler, can do the trick again through Abdu.

The Newmarket trainer, who rides many of his young horses, has proved equally astute in his tricks from the nost.

RACING

tricity Generating Board, wanted to go for the American-designed "Nuclear power and the light water reactor, as most other energy criss, by Duncan Burn. Macmillan for the Trade Policy that there is no more determined This will be the final race for the boiling water could go to industriate the saddle Radeztky. So by Duncan Burn. The same of the final race for the boiling water could go to industriate the saddle Radeztky. So by Duncan Burn. The same of the final race for the boiling water could go to industriate the saddle Radeztky. So by Duncan Burn. The same of the saddle Radeztky. So by Duncan Burn. The saddle Radeztky is the saddle

problems from Foetsjie, Superb up with a full book next year, in Lady and Quantum Major. For contrast to the handful of mares forecast purposes, the lightly who visited him last year.
raced Thatch colt Quantum
Major, a bay son of the fivetimes two-year-old winner Smart
Shella, looks to be the answer.

Hot spring may

Looking ahead to Ascot, Henry In his last two races Abdu, one Cecil has decided to give the

Leicester. However, Newmarket is Government to be After winning by a comfort certain to have at least one preparing a report for Newark able 2½ lengths from the odds-on resolute challenger for the District Council saying that there are a Clive Brittain is probably enough heat to supply two-year-old in training when Queen Anne Stakes winner,

Coupland.

9.30 Great Expectations.

ATV

A I V
19.20 am Music at Harewood. 18.65
Battleground. 11.10 Spiderman. 11.30
Magic Circle. 11.55 The Adventures of
Pardey. 1.20 pm ATV Newsdesk. 1.38
Ragiand Their England. 2.00 Summer
Aiter Noon. 2.25 Battle for Sarvival.
3.20 The Filmstones. 3.50 Three For The
Road. 6.50 ATV Today. 7.20 Crossroads.
11.50 Dan August.

CHANNEL

YARMOUTH 2.15—The Bedford\*\* 2.45—Fast Bowler 3.15-High Roller 3.45-Irish Noble 4,15—Abdu\*\*\*

4.45-Ellidiana\*

strides from the post.

The pair were followed home from a hurst blood vessel, by Cap Ferrat, himself a winner suffered in Deauville's Prix four times from six attempts.

Provided that Abdu is none syndicated by the British Blood-the worse for his hectic camstock Agency. Judged on his paign, he ought to have few exploits of late, he could wind problems from Footsije Sprach as with a full healt next received.

# heat homes

HTV

7.45 "Bless This House," starring 11.45 Ryan, 12.35 am A Little Night Sidney James and Diana Mostc.

## ENTERTAINMENT GUIDE

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World of Animals, 2.60 Women Only,
4.20 Doctors Senss on the Loose, 5.65
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Thur. 8.0. Fr., and Sst. 5.15 and 8.30,
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VERY FUNNY." Evening Mews,
Mary O'Malley's smash-hit comedy
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"Supreme comedy on sex and religion."
Dally Telegraph.
"MAKES YOU SHAKE WITH
LAUGHTER," Goardian.

YOUNG VIC. 928 6363. Opens 17 Sept. for 2 weeks only. PETER BROOK'S famous Paris production of Alfred Jarry's farce UBU (in French). Eves 74 (18 Sept. 7.15). All sests £2.50 (17 Sept. £1.50).

CINEMAS ABC 1 & 2. Shaftesbury Ave. 838 8861. Sep. Peris. All Seets Bible. 7: 2007: A SPACE ODYSSEY (IJ) 70mm film. Wk. & Sen. 1.30, 4.35, 7.55. 2: CONVOY (A), Wk. & Sun. 2.00, 5.20, 8.20. Late show Fri. & Set. 11.20.

CAMBEN PLAZA (opp. Camben Town Tube) 485 2443. Max Oppuls greatest sim LOLA MONTES (A). 4.20, 5.30, 8.50. ENDS WED. CLASSIC 1, Z, 3, 4, Oxford Street tope.
Tottenham Court Rd. Tubet, 536 0310.
Sectial Season of Film Entertainment for
Court and Adults. One price Sop.
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Moutper Line Doors 10.45 a.m.
MALIO THE STYPEY (U.) THE STYPEY
PRACES (U.) THE STYPEY (U.) THE STYPEY
LINE TURNING POINT (AI. Full Storedphonic Sound. Progs. 1.05, 3.30, 6.00.
8.20. Late Show Led Zeppelin THE SONG
REMAINS THE SAME (AI. Sterepholic
Sound, 11 p.m.
21 KINS KISSINGTOON CONVOY 4A). Progs.

REMAINS THE SAME IAL SETTERMONE SOURC, 11 p.m.
21 Kris Kristofferson CONVOY AN. Progs.
1.40, 4.00, 6.20, 8.40, 11 p.m.
31 FM IAL THE WATTERS (U). Progs.
1.00, 5.30, 6.00, 8.30, Late show 11 p.m.
42 Watt Disney's HERBIE GOES TO MONTE CARLO IU). Progs.
5.55, 8.05. Late show THE TEXAS CHAIN-SAW MASSACRE OX-GLC3 11 p.m.

LEICESTER SQUARE THEATRE 1930 5252)

F.I.S.T. (A) Sep. Ports. Sqn. 3.30,
7.45. Wks. 1.00. 4.30. 8.10. Lale
Night Show Fri. & Sat. 17.45 pm; 5.70
peri. bkole. Mon. Fri. All peris. bkole.
Sat. & Sun. except Late Night Show.

RAYMOND REVUEBAR, CC. 01-724 1593 At 7 p.m., 9 p.m., 11 p.m. Open Suns. PAUL RAYMOND presents THE FESTIVAL OF EROTICA Fully all-ronditioned 21st SENSATIONAL YEAR!

REGENT (Daford Circus), 01-537 9862-3.
Evgs. 8:30. Mats. Frt. and 5-t. 6:00.
TAKE THE FRAMILY TO
THE GREAT AMERICAN
BACKSTAGE MUSICAL
"A little level "Financial Times."
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"So colovable. "Sunday Times.
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Credit Card bookings—Seats from £2 RIVERSIDE STUDIOS. (01-748 3354.) Proviews 29 Aug-3 Sep. 7.30 p.m The CHANGELING. Director PETER GILL DDEOM, MARBLE ARCH, W.Z. 2715 20112) CLOSE ENCOUNTERS OF THE THIRD KIND A. SED Bross, 4644 open open Mon.Fri. 2.00 7 30. SEL 1.05. 4.15. 7.45. Sun. 3.00. 7.30. Late Show Fri. 8 Sat. Doors open 11.15 No. All Seats bable. ROUNDHOUSE DOWNSTAIRS. Q1-: 2564, National Youth Theatre PETTICOAT REBELLION. Evs. 7.30. ROYAL COURT. 730 1745. Air Cond. From Sept. 6. etc. at 8. 1Mcol Williamson in John Ostorne's INADMISSIELE EVIDENCE

PRINCE CHARLES, Leic. Sq. 437 8181.

Mel Brooks

High Ambierty (a)

Sep. pers. Gally fluct. Sen.). 2.45, 6.15.

9.80. Late show Fri. 4. Set. 11.45. Seats

bible. Lic'd. Bar.



**ACROSS** 

1 Rendering for each to endure 5 Bus returning team to settle down (7) instituted by inventor of 25 (5)
7 Paint may be unsuitable (7)
10 Dread to accept man embracing student in imaginary 14 Have a liking for employment

place (9) in ornamentation (9)

11 What irresonsible drivers do 16 Plot requiring everybody to

4.45 Graham's Gang. 5.10 Boss Cat. 10.15 I, Claudius. News (London and South 11.40 European Athletics Cham-East only). F.T. CROSSWORD PUZZLE No. 3,758

6 Boast about doctor in charge

being pompous (9)

5.55 Nationwide. 12.00 Weather Regional News. 6.20 European Athletics pionships.6.45 Dr. Who. the following times:

WALES-5.556.20 pm Wales Today. 6.45-7.10 Heddiw. 12.00 News

Couplar

9.20 Great I
10.00 News.

7.10 Top of the Pops.
7.40 European Athletics Championships.
8.10 The Hollywood Creats:
SCOTIAND-5.55-6.20 pm Report Northern Inclination of the Pops.
9.00 News.
9.01 Inclination of the Pops.
11.00 This Sporting Section of 11.00 This Sporting Se

Ireland.

ENGLAND—5.55-8.20 pm Look

East (Norwich): Look North
(Leeds, Manchester, Newcastle): 11.05 Space 1999. LES pm Anglia News.
Midlands Today (Birmingham): 130 The Entertainers-Tony Monopoly.
Points West (Bristol): South Today (Southampton): Spotlight
South West (Plymouth).

South West (Plymouth).

EXCEPT 84 Lac 1000

ANGLIA

10.28 am Little House on the Prairie.
11.28 pm Anglia News.
12.29 Women Only. 4.29 Lassie 6.59
12.30 ATT/

ATT/

BBC 2

6.40 7.55 am Open University. 11.00 Play School. 4.55-5.20 and 5.45-7.00 Open University.
7.00 News on 2 Headlines. 7.05 The British Connection?

7.30 News on 2. 7.40 Gardeners' World.

7.40 Gardeners' World.
8.05 Top Gear. Le Mans sports
car race.
8.30 BC: The Archaeology of the Bible Lands.
79.00 Films of the 40s: "The Gentle Sex." starring Joan Surgeon. 12.00 Border News Summary. Gentle Sex," starring Joan Greenwood, Rosamund John and Lilli Palmer.

10.30 Are You Being Properly

pm Rainbow. 12.30 Doctor! 1.00
pm Rainbow. 12.30 Doctor! 1.00
News plus FT index. 1.20 Platform.
1.30 Young Ramsay. 2.25 Breakdown, 3.20 Quick on the Draw. 3.50
The Sullivans. 4.20 Dynomutt. 4.50
European Athletics.
European Athletics.
6.35 ITN News.
6.50 Crossroads.
7.15 Survival.

GRANADA
Voodoo. 12.30 mm r

YORKSHIRE
10.29 mm Taizan, 11.10 The White Stone
Beatles. 11.25 Skippy. 11.65 A Bandful 11.35 The Woody Woodpecker Show.
of Songs. 1.20 pm This Is Your Bight. 1.25 pm Calendar News. 4.20 The Beatles.
11.30 Mr. Ed. 4.50 Granada News. 6.55 combers. 6.50 Calendar (Emley Moor,
Charlio's Angels. 11.30 Clapperboard Belmont eds.). 11.00 The Streets of San
North West. 11.30 What The Papers Say.

Waher (S). 1.50 News. 6.30 Brain of Brital

1.1 What irresonable drivers do 16 plot requiring everybody to in turn had become chaotic (3-3-3) and the right (6) 17 plot requiring everybody to the right (6) 18 plot requiring everybody to the right (6) 18 plot requiring everybody to the right (6) 18 plot requiring airman to the right (6) 18 plot requiring everybody to the right (6) 18 plot requiring everybody to the right (6) 19 plot requiring everybody to the right (6

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Supplem

asing at 1

CURZEN. Curzon Street. W.1. 499 3737.
(Air-Conditioned). LAST WEEK'S DURZU
UZALA (U) in 70 mm (English sub-titles)
WASTERPIECE. Times. WASTER
WORK." Observer. "MASTERPIECE."
News. Film 2.0, 5.43, 8.20. Sun. 4 8 7.

ODSON, MAYMARKET, 1930 2738/2771).
MIDNIGHT EXPRESS (X). Sea. GrodsDiv. at 2-30. 5-30 2-30 pm. Late short 11-15 pm. prog at 11-45 pm. All acets byble.

ODEON, LEICESTER SQUARE, 1930 511.11
REVENGE OF THE PINK PANTHER (AL. See, Progs. Div. Doors oom 1.42, 4.32.
7.45. Laic shows Thurs. Fri. Sat. Doors open 11.15 pm. All sees oblete, at 38.
Boy Office or by Post, except Truts.

STUDIO 4. Oxford Circus. 437 3200.

Jill Clayburgh, Alan Batus

AN UNMARKED WOMAN (X)

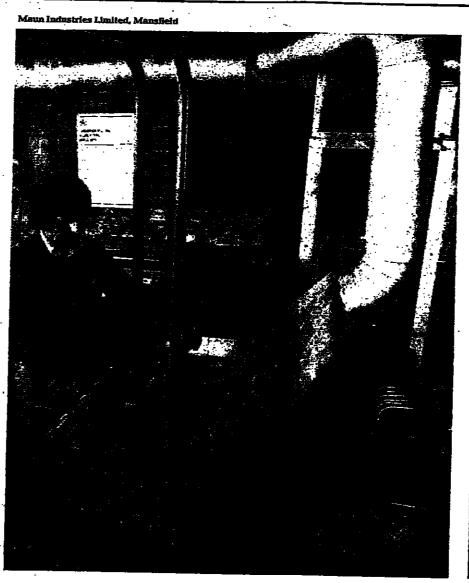
Progs. 1,05, 3.30, 6.00, 8.35. Late show

Sat. 10.50.

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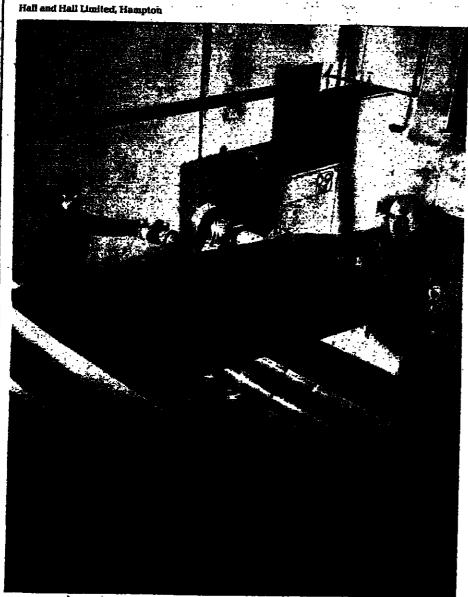
Electric convection curing improves product quality



Low-cost installation with electric vat heaters



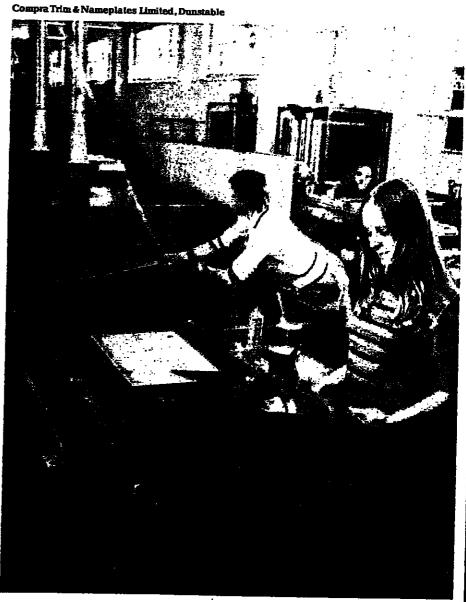
Electric infra-red oven speeds paint drying



Supplementary electric steam raising at point of use saves money



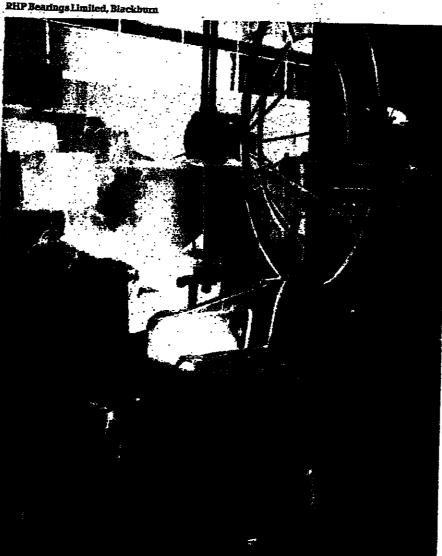
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## **FINANCIAL TIMES**

BRACKEN HOUSE, CANNON STREET, LONDON ECAP 4BY Telegrams: Finantimo, London PS4. Telex: 886341/2, 883897 Telephone: 01-248 8000

Thursday August 31 1978

# A counter to the boycott

THE ARAB boycott of Israel is boycott conditions in negotiat- three investment projects. and unpredictable, it poses mail. scrious moral and commercial The weight of evidence given fidential husiness transactions. problems for companies trading to the Select Committee, howfelt obliged to withdraw from Israel; others have avoided looking for Israeli business which would normally interest endorse the comment in the Government supported this posimittee on the proposed Foreign proposed Bill outweighed any Baycutts Bill: "It is objection- possible benefits. The Commitable for those who are not tee rightly pointed out that such party to the Middle East con-legislation passed by only one flict to be drawn into it and European country would not for the exercise of legitimate have the effect of dismantling cconomic activity to be made the boycott apparatus, Indeed subject to extraneous political it would add a fresh layer of

been the U.S., partly because of its powerful pro-Israel lobby, Haif-hearted which has taken the strongest This does not mean that the stronger than they were just action. The Export Administra-tion Amendment Act of 1977 British Government's present over a year ago, when Lord makes it illegal for a U.S. company to refuse to do business with Israel because an Arab country demands it. In addition.

U.S. companies are prohibited from furnishing certain kinds of information about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation about their dealings because the south of the formation of the formation about their dealings because the south of the formation o with blacklisted firms or with Diplomatic pressure

designed to ban trade between ing new contracts. Hence supcompanies which are deemed to the UK have argued that Arab commercial organisation. its land. Wales and Northern succeeded. the Israeli economy or to have enforce the boycott against strengthened her war effort. British companies if the British Although the application of the Government showed a firm boycott has been inconsistent determination to resist black

in the Middle East. Some have ever, was that unilateral action the NER has been performing he the lik would damage muite skilfully for an organisalong-standing commitments to British exports, Most business tion that was launched three that it would be much easier for industry and which has been them. Eusinessmen are heartily that it would be much easier to threatened with the axe or at the Arabs to switch from British threatened with the axe or at sick of it and would fully to alternative suppliers. The least the printing chears—of Sir report published yesterday by tion and the Select Committee tives win the next General the House of Lords Select Com- concluded that the risks of the Election. statutory rules to be complied

information about their dealings boycott to unnecessary lengths. lobs as a civil servant, businessboycotted countries where that Diplomatic pressure in man and merchant banker to information is sought for individual countries may bring damage U.S. exports to the components. The Government privately coaxed into co-opera- authorise two important points ing the NEB did not win orders envisages investments normally experience of its High Street years ago and more recently

# Barriers to efficiency

of productivity growth has been been more efficient the one constant in the recur- most in this respect since its rent British planning experi- underlying rate of productivity ments of the past generation, growth has fallen back by more Yet, as figures in the latest than the average. Department of Employment There is no clear-cut explana-Gazette indicate, the UK's pro-deteriorated rather than improved in recent years. The slight rise in employment in production and manufacturing reflects the effects both of inclustres in lune and the various employment-supporting Chinese can do better—or broadly that trend since last broadly flat trend since last measures and the lags between vice versa. That has long autumn point to only a slow rise changes in output and employin output per beed.

monatacturing predictivity lower productivity service Moscow talked of diverting appears to have been less than industries." The UK's power rivers to run southwards instead I nor cent, higher than a year than average performance can earlier, while rising output in in part he explained by its relathe capital intensive North Sea tively larger job preservation Soviet Siberian schemes is to oil sector has ensured a gain of schemes — currently keeping dredge up its own plan. Need-ground 1] per cent in productaround 200 000 people directly loss to say in this case the size. tion in astrice generally. This off the unemployment register is hardly much reward for in addition, the efficient use of the self-financing productivity labour has not been helped by se semes allowed under the pay the Government's policy which have added about employment protection and repolicy which have added about dundancy measures, leaving country has ample water out the per cent to the increase in aside the direct and indirect north has 100 little. But now aside the direct and indirect north has 100 little. earnings in the past year.

#### The deterioration

but it also represented an ita- rising. provement of only 7 per cent Distorting effect from the 1975 trough. In con- There is a distorting effect trast between early 1971 and on the efficiency of the labour

THE NEED to improve the rate however, appears to

impact of industrial aid.

These measures could be regarded as an acceptable price from the swollen and wasteful This has occurred at a time which the rest of the community of buoyant consumer demand in is prepared to pay temporarily 1.000 k-lometres to the thirsty Yang Di was messing about with the UK and at possibly around -through taxes and higher the peak of a cyclical upturn, prices—to reduce unemploy-The deterioration is shown even ment and to ease longer-term more clearly by comparison changes in a period of severe with the previous cycle - not recession. The problem is that only was output per head in these employment schemes are presinction industries in the not temporary and are being first half of this year less than extended during the current I per cent higher than the pre- period of recovery even if the vious peak at the end of 1973 number benefiting is no longer

the end of 1973 productivity market as a whole from the of the Yangtze's flow. rose by nearly 12! per cent. apparently permanent policy of The UK has not been alone in employment support. The result to find out that the project, like which makes the Panama Canal missions that could be looked at abilities of this cunning device. experiencing a sharp reduction has been to ossify existing so many larger than-life Chinese To Chairman Mao, of course, would not necessarily be exclu- the photograph is "caluculator" growth since 1973. With the directly, via the influence on before. The new waterway is exception of West Germany the attitudes of managers and to follow the course of the hisexception of West Germany the attitudes of managers and to follow the course of the his Hua this year. there has been a similar trade union leaders throughout toric Grand Canal, dug about phenomenon of firm or rising industry. The slow growth of AD 600 by the Sui Emperor, employment and slow output productivity in this way exposes Yang Di. He wanted to be able Cheap at the growth in most other major the inherent contradiction in to travel comfortably from his industrialised countries. This the Government's industrial capital at Pangehow to Loyang Price has prompted the Organisation policy between its short-term to see the flowers bloom in the has prompted the Organisation point desire to preserve jobs and the spring. He drafted a million It is. American Express an question of how its famous "ex head office in Tokyo . . . .

THE NATIONAL ENTERPRISE BOARD

# The State's new businessmen

been attacked for being reckless tion strategy.

a fierce armiment with the Commons Public Accounts Committee which is trying so far without success, to make the NEB reveal details of its con-What all this means is that

Keith Jeseph is the Conserva-

#### Good chance of survival

chances of the NEB surviving The question is—what can be with and make trade with the as an example of state owner-done about it? So far it has Middle East more difficult. ship with an entrepreneurial face under a future Conservative administration are now

people all have their own ideas of what the NEB ought, or operations, they have yet to produce many major comments to be, they have all become less strident in their many success so activities prompts the major certain senior management. Two of the deals are also designed at the contractors of the deals are also designed at their many success so activities prompts the major certain senior management. Two of the deals are also designed at their many success so activities prompts the major certain senior management. criticisms.

up to £50m in its new INMOS when he threw an unusual years ahead.

URING the past few trial and other issues by the Leslie and his colleagues have from the fact that they have for example, with Fairrey and, had made only a limited impact, who intends to make the NEB and give it a fresh start. Among a considerable amount of publicity, some of it favourable and some highly critical. It has been attacked for being reckless tion strategy.

URING the past few trial and other issues by the Leslie and his colleagues have from the fact that they have for example, with Fairrey and, had made only a limited impact, caught the eye and imagination of Sir Leslie and the dozen senior staff from the NEB will employ to monitor proposition to make the NEB and give it a fresh start. Among the other "lame ducks," the trial part of his general electrical part of his general electri business is still in trouble and available.

micro-chip company based on Downing Street dinner party for There have also been some defined areas: helping its lame well as to find new top execu-NEB and individual Midland the skills of three electronics about 45 people early last month failures with the NEB's early ducks; boosting exports by tives was a major attraction to Bank managers and may soon be engineers, and it has won at which he made Sir Leslie the investments and attempts to encouraging overseas marketing financial institutions in recent extended to Merserside. acceptance from two clearing star turn. The guests included work out industrial strategies, ventures; filling what it sees as deals. These involved Barclays The most significant example banks and the firmly private Tory MPs (Sir Reith pleaded in particular there has been the equity gap for small and Bank joining up to rescue the of the NEB finding entrepreenterprise Industrial and Comother business), top CBI and controversy over is intervention medium-sized businesses, especi- Monotype printing machinery neurs and top directors to run
the firmly private to the private of the new particular there has been the equity gap for small and Bank joining up to rescue the of the NEB finding entrepreenterprise Industrial and Comother business), top CBI and controversy over is intervention medium-sized businesses, especi- Monotype printing and its businesses is the INMAN. mercial Pinance Corporation in TUC leaders and senior Cabinet in the tanning industry, while ally in areas of high unemploy- company, the Industrial and its businesses is the INMOS three investment projects.

While it has won this respect. Well as representatives of the industries such as electronics industrial strategy role by tion jointly investing in BTB one UK and two American Arab countries and foreign porters of similar legislation in ability and acceptance as a NEB's parallel agencies in Scot. and power engineering have not rationalising industries and (Engineering) of Blackburn. micro-electronics experts. Sir encouraging new technology, and the Midland Bank forming Leslie believes it is essential to

The NEB's ability to assess the East small firms scheme, was with public money in investing. He showed how he rates it Rolls-Royce has several lean. The NEB however sees its viability of companies and the also a local NEB initiative. It work as falling into clearly capabilities of businessmen, as establishes a link between the

have promoted the growth of countries would be reluctant to public sector status has led to Ireland. After a fairly quick One NEB company — Hivent This is the basis of its invest- a new joint company based on motivate people financially and, as a result, the three founders of INMOS and other key em ployees will have the opportunity to purchase up to 27.5 percent of the company's voting shares. This is not the first time\_that the NEB has used State funds to boost the businesses - and potential personal profits - of entrepreneurs. It has done the same thing with Sinclair Radionics and INSAC Data Systems. And, in a somewhat different situation, it has approved the purchase by Mr. Derek Alun-Jones, who it appointed managing director of

> But the INMOS initiative is the biggest example so far and is thus the best demonstration of the new sort of mixed economy business that Sir Leslie and his colleagues are designing in place of the more traditional nationalisations of the past. The same formula could not of course be applied to the NEB's loss-makers, although the proposed BL incentive scheme for manual workers could be extended upwards to management.

Ferranti, of a sizeable block of

shares in his company earlier

this year.

Nevertheless, the NEB has in the past year developed a signicant type of state intervention. In so doing, it has not followed the early Wedgwood Benn hopes that it would ruthborcotted countries where that information is sought for purposes of buycott enforcement.

Reprisal fears

Reprisal fears

Although the Act is not as strong as some upponents of the buycott had hoped, there were buycott had hoped, there were fears among businessmen that it would lead to reprisals in twould lead to reprisals in the more general individual countries may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces may bring about some relaxation of the purposes of buycott enforces and may bring about some relaxation of the boycott rules. As the Select this is the funding small firms.

Committee points out, it is not as the for its work and then launched a 1; work and then launched a 1; work and then launched a 1; medical care interests of United industry for its activities—future and then found it two least to criticisms that his philosophy and strategies have medical care interests of United industry for its activities—future and then found it two least to criticisms that his philosophy and strategies have made a 1; medical care interests of United industry for its activities—future and then found it two lowers and there have been plan, which it submits to the funding small firms.

November is the case of Monotype, the work and there have been medical care interests of United industry for its activities—future and then found it two lowers and there have been plan, which it submits to the funding small firms.

November is the case of Monotyp lessly buy its way into the

appointments. important because they have argument — if a Conservative

Often the selection of new top helped to establish the reputa- Government does not try to dis-



#### SIR KEITH JOSEPH:

lowering of the axe with which he has threatened the NEB



SIR LESLIE MURPHY:

. operating a flexible policy with a low public profile

key approach has fitted in with he floating off some of its shares it is little more than a motley management is the NEB's major tion of the NEB in the regions, mantle both it and the NEB's the cautious, non-controversial shortly. But BL remains a assortment of businesses that contribution to the running of where up to now its local offices entrepreneurial activities in the than front adopted to sensitive indus- problem, and the best that Sir have little in common apart its acquisitions (as happens, (backed up by regional hoards) meantime.

Perhaps their main success so activities prompts the major certain senior management. Two of the deals are also deciding the outcome of that At the same time, the low-fortunes of Ferranti, which will apart from its "lame ducks." Often the selection of the selection

Middle East. It is too early to should seek a consensus among assess the effects, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indications are encouraging; some of dealing with the boycott, but first indication and in the meantime the American hold encourage a cativities, while others at the out of such one-off export individual companies have been in support of the principle of individual companies have been in support of the principle of able to secure the removal of non-discrimination.

Bit deepers the CBI people for a Venezuclan railway and a admitted their members rarely. Middle East power station, Now admitted their members rarely. Middle East power station, Now dequity stake of not less than £100,000 with bank managers.

Even Sir Keith Joseph and fellow Conservative politicians if ever, complained about NEB admitted their members rarely. Middle East power station, Now dequity stake of not less than £100,000 with bank managers.

Even Sir Keith Joseph and fellow Conservative politicians if ever, complained about NEB activities, while others at the out of such one-off export in ments that may well not have ments. Plantage investments normally experience of its High Street Veas ago and more recently income.

Even Sir Keith Joseph and more recently income.

Even Sir Keith Amorea Coordinates that.

Even Sir Keith NEB is generall

handle the delicate subject of

accounts involved, secret pay-

consequence of a contract with

I was told that RL' did not

wish to make an announcement

about that just now, . And was

there any comment on the con-

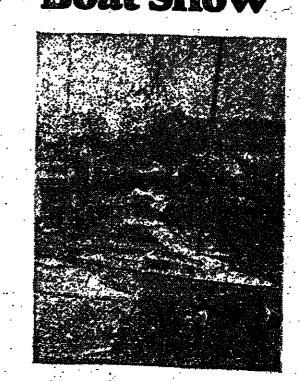
(UK) is still a trifle red over

tents of the article? "No."

the Egyptian army.

trade union, Sir Keith has been tended and talked to by Sir Leslic (himself a known Labour supporter). While such people all have their own ideas people all have their own ideas operations, they have ver to the support of the such people all have their own ideas operations, they have ver to the components to seeks the right to appoint one in NEE's entreprenental actions.

# An 8-page guide to the Southampton Boat Show



With more than 450 exhibitors the Southampton Boot Show on September 18-23 promises to be bigger and better than ever. Along with the 8 page pull-out guide to the show, this month we feature a concise preview of the many new boats and pieces of equipment, Our Course Week Report takes a look at the bigger yachts and details of all the racing. There's an article on liferafts—would yours let you down? Plus a report on the Round Britain Race and all our usual and unusual

All in September's

Yachting World

# MATTERS

## The Chinese

seemed the case in the cold war. ment but may in addition reflect between the two so I suppose Over the first-half of this year some switch in demand to the it was inevitable that, once of northwards. Peking would respond. Its answer to the less to say in this case the river. the Yangtze, is being moved northwards not southwards. The problem for the Chinese

is that the south of their country has ample water but the our Peking correspondent, John liloffmann, tells me that waters Yangtze are to be pumped dynasty's two monarchs. While environs of Peking. The scheme, China's most using their energies to build

ambitious hydro engineering armics. project, foresees taking 30bn cubic metres of water each year the era of Mongol supremacy from Yangchow, near Nanking, in the 13th century and extenuphill and down, across the ded some 200 miles to Tientsin, water is to be raised by 30 ject. This will involve the re-"staircase." The volume invol. in certain areas, its re-routing.



"You could be waiting here in the comfort of your very own office - contact our letting agents . . . "

boats, his Tang enemies were The canal was rebuilt during

exclusive ible," said one of the two \* London's most hotel," for two people at a mere spokesmen

That price includes breakfast the alleged slush fund: "We and dinner but continued to stick by the rules." Ask the seem daunting even when the Inland Revenue." he went on, hold told me that it repre adding a trifle trascibly. There sented a discount of 35 per cent is no slush fund." on the normal room rate. Why I asked him whether BL prowas such a discount necessary posed taking legal action over in the high autumn season? I a newspaper article a fortnight asked - only to be told that ago which alleged, with the business was not as bright as it names of the Swiss hank had been in Jubilee year.

U.S. businessmen are staying ments of £700,000 and £525 000 fewer nights and the hotel wants to a prominent Saudi and one to encourage its U.S. business of his compatriots, and cisa one clients to bring their wives to Shari Alexane of Egyptalong for the weekend. And money supposedly received as a what has been the response to an offer so hard to refuse? "Not at all good."

#### Claim allowed My note last week about tax-

deductible fines in Canada has prompted a reader to ask Miscalculation whether bribes vital to carrying on business qualify as a legitimate expense for tax purposes. The answer, surprisingly, is a full-page colour supplement

The Salmon Commission on high-hedded Yellow River. The the destination of the new pro. Standards of Conduct in Public LCS58WA calculator. Life, set up after the Poulson amazing amount of precise pumping stations on a 15-stage dredging of the old canal and, scandal in 1974, did look into functions are included," glows the question of building the the text - at a cost to Toshiba ved is equivalent to one-half of As a result, 4m hectares of word "honest" into the phrase of just under £4.000-" four the flow of the Yellow River land will be newly irrigated and "wholly and exclusively in arithmetic calculations, mixed but will take only one-thirtieth 18m hectares of swampland curred for business." But noth- as well as sign change, constant drained. To whom should credit ing was done, and the Inland power, add-on/discount, memory It is almost a disappointment go for reviving a waterway Revenue tells me that even com- calculations." Whatever the seem little more than a pudding askance in another quarter the name that appears on it in ments were actually made, and duced by a photographer doing the name of the nerson con- a spot of touching up: "It

BL, formerly British Leyland, why the advertisement? "There took four days to process my has been some sort of mix-up at for Economic Co-operation and desire to preserve jobs and the spring, the drafted a million is a control of the control of the

# The corporate face of Toshiba

advertisement for its microminlaturised, cerned: "This might be a does not matter," said a spokes-practical difficulty," said a mag. "You council get this model in Britain anyway." So

*Observer* 

الفيكذامن المجل

# FINANCIAL TIMES SURV

Thursday August 31 1978

# Period of major growth ahead

By Michael Donne

Aerospace Correspondent

AMONG THE most significant of the aircraft manufacturing decisions already taken this summer include that by Airbus Industrie, the European consortium building the increasingly successful A-300 Airbus, to launch the new A-310, 200seater version, backed with subworld markets and providing two major ventures proposed in One-Elevens.

Airbus Industrie with a power the U.S. the two engined

big "200-seater markets" of the in the JET programme. future, with the Dash 400 ver-McDonnell Douglas of the U.S. development of several new has decided not to compete in Rolls-Royce aero-engines is this section of the market, and awaited—the Dash 535 version has shelved its original DC-X-200 of the RB-211 which is on offer in Romania, while British Aerodesign, preferring instead to for both the 757 and ATMR concentrate on its plans in other ventures, and the proposed areas, including the continued RE-432 "Spey replacement" and development of its highly the smaller RB-101 engine for successful DC9 series, further the next generation of business versions of the DC-10, and jets and other light transports. development of the short-to- All of these engines are of vital medium range Advanced Tech- significance for the long-term flurry of activity in the aero-

These decisions are likely to be supplemented soon by Approval further major developments.

# eros par

This has been a dramatic summer for the world's aerospace and airline industries, and they go to this year's Farnborough-Air Display conscious that the decisions already taken and those that are likely before the end of the year will reshape the manufacturing and operating sides of world aviation for the rest of the century.

ul competitor. Boeing 757 and the McDonnell More recently. Lockheed of Douglas ATMR—in either of

At the same time formal the TriStar, but Government approval for the

government level with France or potential developments this the rate of growth of world air to late 1950s. A-310. This also carries with liner," at the same time giving lines' existing fleets unaccept- orders for the rest of this cen- rapid spread of cheap fares has effectively with rapidly chang-

launching that programme on to craft would be competitive with of between three and six new to replace the fleets.

While this latter decision may Outlays have appeared to be a blow to the U.S. has made it clear that which Britain could have a stake the longer-term prospects of the it is also in the battle for the if it did not wish to participate One-Eleven, that arreraft in fact now has a secure future as a British Aerospace and Romania for the eventual provision of up space is also now exploring the prospect of a major One-Eleven deal with Japan, also involving some manufacturing under licence there.

such U.S. airlines as Eastern, series of short-to-medium range replacement of its againg many of the existing short-to-be left at a competitive disof United Air Lines of the U.S. programme, and whether the the additional requirement that creasingly expensive to run as the new engined airliner, effectively also developments. These latter air- British Aerospace for purchase of all these factors is the need

just about to flow through the and into the 1990s, if traffic world's airlines is expected to growth continues at even an involve outlays of some £40bn average of 6 to 8 per cent a year. up to the mid-1980s on about But if as a result of traffic 3,000 or more airliners. While growth and new governmental manage of would be chosen for this demand will be spread ecross the entire spectrum of fleet obsolescence, the manufactypes, from the existing Boeing turers seem headed for a long in Sir Freddie Laker's balance autumn, and to go to govern-747 Jumbo jets down to the period of good business, the air sheet So strongly has the idea ments for approval later this small feeder-liners of the 146 lines themselves have some conshort-to-medium haul field, pressure from the public for strained recently to uphold the summer. If they fulfil the hopes helicopter for the late 1980s. which is why there is so much ever-chaper air fares—as earlier Civil Aviation Authority of many of the world's major known as the WG-34. Here emphasis on the new generation evidenced by the undoubted decision to award Laker Air airlines, they should revolu- again, a major programme is enof 200-seaters and smaller 130- popularity this past summer of ways another Skytrain route, to fionise the competitive ability of visaged, with international col-180 seaters. Thus, the manu-such cheap-rate fares as Sir Los Angeles. nology Medium Range (ATMR) future of Rolls-Royce in world space manufacturing scene is facturers are heading for a Freddie Laker's Skytrain and While this cheap-fare revolus help give an impetus to traffic the start so as to ensure the transport.

The first the start so as to ensure the difference of Rolls-Royce in world space manufacturing scene is facturers are heading for a Freddie Laker's Skytrain and While this cheap-fare revolus help give an impetus to traffic the start so as to ensure the transport.

The first the start so as to ensure the difference of Rolls-Royce in world space manufacturing scene is facturers are heading for a Freddie Laker's Skytrain and while this cheap-fare revolus help give an impetus to traffic the start so as to ensure the transport.

months the terms for a UK facturing scene. In Britain the cisions in the U.S. and else-re-equipment tide is likely to be national routes such as the "Parliament" — the resumption of membership of Government has given approval where that have tightened up swift, and that within a little North Atlantic,

This re-equipment tide that is through the rest of the 1980s

of the demand siderable problems to overcome. of Skytrain prevailed that the year or early next, with full preparing a new design for the likely to occur in the Among these is the mounting U.K.

stantial orders from such air- it the longer-term question of British Airways permission to able at major airports in the tury will have been placed as improved load factors and con- ing conditions in the market lines as Air France, Lufthansa whether the European con- buy 19 Boeing 737 short-haul mid-1980s. This situation has airlines scramble for places in tributed to profitability this place.

The launch of the 310 was airliners in what is called the Trident Ones and Twos, and medium haul jets are ageing advantage, or without adequate degree of caution prevails and enabling airlines to compete swiftly followed by the decision Joint European Transport (JET) One Elevens in its fleet, with anyway, and are becoming in-new equipment in 1985-86 when most airlines flying the North more directly Atlantic believe that there is conditions of in-flight service buy the Boeing 767 twin- UK would also share in such the airline also negotiates with fuel costs rise. The net effect become effective and render danger in pushing the cheap than has been possible for many fares revolution too far too fast years. Much of the impetus forand they are not yet prepared these changes—which are still to admit that cheap rates are subject to approval generating new traffic; and thus governments of the airlines con-The exception to this is un-

increasingly impatient with the queues of would-be cheap fare travellers outside Station in London and profits are expected to be finalised this gramme to get under way. sheet. So strongly has the idea ments for approval later this Westland Aircraft of Yeovil, is fares—as earlier Civil Aviation Authority of many of the world's major known as the WG-34

airlines are now moving closer if not exceed, the inflow of the lines Stand-by and Budget Plan quieter revolution, but a revolution to stimulate demand for new air- greatest spread of the costs to a period of major renew generation of jets that re- fares. But while these cheap tion nonetheless, has been in craft equipment in the period burden. equipment with new aircraft, as placed the piston-engined and rates have been popular with progress within the scheduled immediately ahead. turbo-propeller era of the mid the public, there is still some airline industry itself, with a worry behind all this is that siderations, there are some doubt as to their impact on eir- radical revision of the regula- the airlines do not know just other major long-term areas of The general belief is that this line profits, especially on inter-tions of the world's airline how far this new era of cheap vital significance for the UK the European Airbus Industrie for British Aerospace to launch noise regulations in such as way more than five years or so, a While inside the U.S. there tion-designed to enable the generate traffic growth, and thus in planning future programmes. consertium, to help develop the the £250m Type 146 "feeder as would make many of the air- substantial proportion of the seems to be little doubt that the scheduled airlines to cope more stimulate profits—for it is only Of especial significance in

Beyond the Tornado, work in Harrier vertical take-off aircraft in the late 1980s, known at pre-

While there is currently much

These changes are still being scale, Victoria discussed inside IATA, but they international collaborative

Inter- fares will go, and whether aerospace industry national Air Transport Associa- greater competition is likely to Government needed to consider

# means business...worldwide

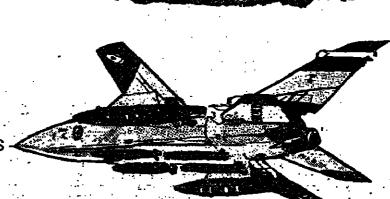
Helicopters Westland Lynx, Sea King, Commande and Gazelle are in full production for NATO countries and the armed forces of the world. Lynx, designed by Westland and built with European collaboration, the world's fastest helicopter with a hingeless rotor system, has been ordered by 12 countries.

New business includes a large new military helicopter and a second generation remotely piloted helicopter.

Hovercraft British Hovercraft Corporation hovercraft have carried over 20 million passengers and completed 300,000 hours of operation in 50 countries. The SUPER 4, now in service, is the largest passenger hovercraft in the world and carries up to 60 cars and 416 passengers across the Channel in half an hour.

**Systems Engineering** Normalair-Garrett is the European leader in environmental control, hydraulic, pneumatic and life-support systems for aircraft, submarines and fighting vehicles.

Experimental & Electronic Laboratories and F.P.T. Industries Limited are specialists in the design, testing and manufacture of emergency flotation equipment and crash-proof fuel systems for the aerospace industry worldwide.



Westland Aircraft Limited England

eQueen's Award to Industry has been won 7 times by Companies in the Westland Group

# New name heads Britain's effort

ONE OF the major changes that smaller, independent light ber 31, 1977 (which included will be apparent to all the visi- transport aircraft manufacturer results for individual companies Corporation, Hawker Siddeley the Oerlikon-Buhrle group. Aviation, Hawker Siddeley Dynamics and Scottish Aviation. These companies have now been Supporting nationalised, and their individual identities merged into In addition to these direct behind the initial performance

space industry. Operating inde-Marconi. Electronics Group, pendently of British Aerospace, Lucas Aerospace, the Plessey under the separate aegis of the Group and Smiths Industries, National Enterprise Board, is with Ferranti also a major conthe State-owned Rolls-Royce, tributor but which is now a with close on 60,000 workers and a turnover of over £700m Enterprise Board.

Much of the first year's activity of the new group has been dominated by reorganisa-

tors at this year's Farnborough is Britten-Norman (Bembridge) in the three months immediately air display will be the emer- of the Isle of Wight, building prior to Vesting Day in April), gence of a new name, British the Islander and Trislander air- total sales of £860m, of which Aerospace, in place of several craft, and which is now being 62 per cent, or £536m were in Aerospace, in place of several grant, and which is how being by per cent, or absolute in famous names that have taken over by Pilatus Flugzeug- exports. The trading profit of dominated the show for many werke of Stans, near Lucerne, the group amounted to £65m, years past—British Aircraft Switzerland, which is part of with a profit after tax of £29m,

Enterprise Board.

Collectively, all these combeen dominated by reorganisa-

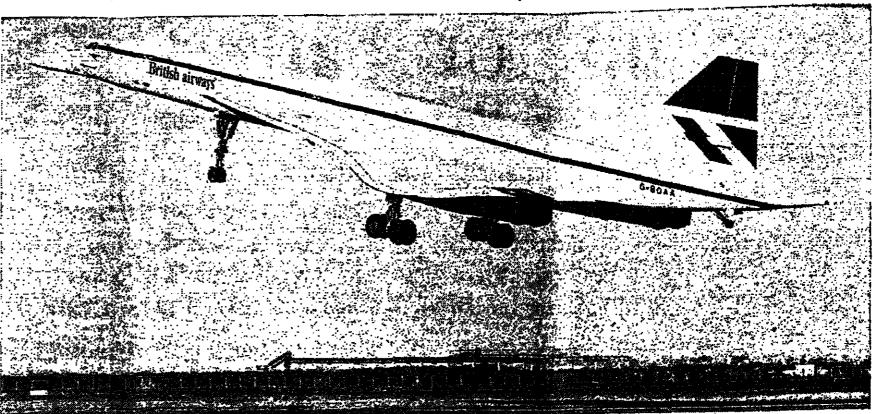
representing a return of 8 per cent on sales. Orders in hand at the end of the year amounted

that of the new organisation, manufacturers of aircraft, mis- of the nationalised aerospace which now represents the big-siles, hovercraft, helicopters industry. While some of the gest single entity in UK civil and space equipment, at least and mulitary auftrame, guided another 80,000 workers in the weapons and space research industry are employed in the affairs.

How represents the original states, industry, much of the distribution of the credit for it can go to the newly-established Board of British Aerospace, under the chairman-ship of Lord Beswick, much of equipments, components, syship of Lord Beswick, much of the foundation for the financial supporting the air-although British Aerospace, frame, engine and missile with nearly 89,000 analogues. with nearly 69,000 employees, manufacturers, through such is a dominant voice, it does not major private enterprise groups represent the entire UK aero- as the Dowly Group, GEC space industry. Operating inde- Marconi Electronics Group, Reswick and his team to build Beswick and his team to build

on exports. In addition, the UK panies comprise the UK aeroaerospace industry includes space industry includes space industry, which with a flow of work in civil and miliShort Brothers and Harland, the total of close on 100 000 cm. tary aircraft, guided weapons light transport aircraft, missiles total of close on 190,000 em. tary aircraft, guided weapons

Plessey: an important word



Although production of Concorde is now nearing completion, the arcraft will remain in service for many years until a "second generation" supersonic airliner emerges, perhaps in the 1990s.

light transport aircraft, missiles and general aviation engineer ing company of Belfast with about 7,000 workers, now also state-owned but operating under the aegis of the Northern under the aegis of the Northern Lieland Government.

In the day to day operational mum of local initiative whilst in production over 108 aircraft, the support of aircraft, missiles and general aviation engineer ployees, and a turnover well in and space research upon which aim of Lord Beswick and his ployees, and a turnover well in and space research upon which aim of Lord Beswick and his proposed from British Aircraft Core Elevens ordered from British Aircraft Core Elevens of £200 and \$200 arcraft from British Aircraft Core Elevens of £200 arcraft from British Aircraft Ireland Government.

Totally independent of these State-owned organisations, however, there are many private enterprise companies. Prominent in the manufacturing field is the Westland Aircraft Group indicating that for five year as a whole they are the Westland Aircraft Group indicating that for five year as a whole they are in the Westland Aircraft Group indicating that for five year as a whole they are in the Westland Aircraft Group indicating that for five year as a whole they are in the Westland Aircraft Group indicating that for five year as a whole they are in the manufacturing field is the Westland Aircraft Group of Yeovil, which includes Westland Aircraft Group indicating that for for space research and guided is the Westland Aircraft Group in the Bittish Hovercraft Corporation as well as the specialist engineering a whole achieved in its first venience and partly on func
Totally independent of these troops in at record levels, and for the European Airbus is selling exceptionally in and operating an efficient responsible for all civil and whole has 23 factories through cordes; wings for the European Airbus is selling exceptionally in and operating an efficient responsible for all civil and whole has 23 factories through cordes; wings for the European Airbus is selling exceptionally in and for the European Airbus, and full produce well. British Acrospace to the UK, with 11 airfields. A-300 Airbus; and full produce well. British Acrospace in the first six months of the European Airbus is selling exceptionally in and for the European Airbus is selling exceptionally in and for the European Airbus is selling exceptionally in an first six months of the European Airbus is selling exceptionally in an first the European Airbus is selling exceptionally in an first the European Airbus is selling exceptionally in a first the European Airbus is selling for the European Airbus is selling for the European Airbus is selling exceptionally in an first the European Airbus is selling for the European Airbus is selling fo Hovercraft Corporation as well itself is concerned, the group as the basis of geographical conas the specialist engineering a whole achieved in its first venience and partly on funcproduction include the Harrier discussed later.

in Bremen and final assembly in addition to another 2,000 comas the specialist engineering a whole achieved in its first venience and partly on funcproduction include the Harrier discussed later.

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in Bremen and final assembly in addition to another 2,000 comas the specialist engineering a whole achieved in its first venience and partly on funcproduction function.

Aerospace has provided design contractors' staff. Furthermore,
Aerospace has p services and marketing, product as a result of contracts awarded and flight-test support, and the in 1974 by the Omani Governwhole venture has been worth ment to BAC for Jaguar strike Versions

over £200m. Five British Aero-aircraft, One-Eleven jet trans-space factories are involved ports and Rapier air-defence Hatfield, Chester, Brough, Man-missiles, further contracts have with long-term importance for

and the Land and Sea-Dart area about 70 to 75 pe

#### **Satellites**

satellite for the European Space Romanian agreement.

lions of pounds. Examples of the Spey parts will be produced year. this include the deals with in Romania. The programme Saudi Arabia, whereby the will begin with three One-

Flash air-to-air weapon; the medium range civil aircraft for being built (with some foreign Flash air-to-air weapon; the medium range civil aircraft for Swingfire anti-tank missile; the the big markets of the future. Martel air-to-surface tactical it is a fact that the bulk of strike missile; the SRAAM short the group's activities lie range close-combat air-to-air currently in the military, weapon; the Sea Skua light guided weapons and space weight anti-ship missile system, fields, accounting for up to passengers. A military version and the land and Sea Dar area about 70 to 75 per cent of the aircraft is also marted. defence system against high and current turnover. On the civil The engines will be provided Space activities include a wide now be expected to be taken up group is hopeful that at can range of satellites for both by the 146 feeder-liner pro- win orders eventually for up to

group's business is now also licence in Romania in parallel being made by the sale of with production in the Bristol, expertise to foreign countries Weybridge and Hurn factories under what are called "defence of British Aerospace. Over World. Nevertheless, British Aerospace remains countries. support contracts." whereby £100m of the agreement is also both specialist advice and hard-concerned with the joint manuscript that it can find a market and ware is made available in facture of 225 Rolls-Royce Spey its salesmen are on the made "package deals" worth in some engines which power the One-cases several hundreds of mil- Eleven. Eventually, about helf contracts before the end of this lions of nounds. Examples of the Spey parts will be available.

The other major development

chester and Hamble) and been signed for British Aero-British Aerospace was the around 2,000 design, administra-space to manage a comprehen-Government approval this sumtive and production personnel sive modern air defence system mer for the full-scale develop-are employed in this increas for Oman. ment and production of the ment and production of the are employed in this increas for omain interest is original Hawker Siddeley programme.

currently being shown in the HS-146 four-engined short-hauf Among guided missiles in pro-civil airliner manufacturing duction or development are the side of the British Aerospace Rapier anti-aircraft missile: the group's activities, and especi-seawolf ship-borne point ally in the question of a share defence guided missile; the Sky- in developing a new short-to-being built (with some foreter programme). side, much of the slack that was by Avco Lycoming of the U.S. being generated by the run- The aim by British Aerospace down of some major pro- is to fly the prototype in 1980 grammes of the past, such as and to have aircraft available Concordes and Tridents, can for delivery from 1981-82. The scientific research and commer- gramme, and the continuation 350 of these aircraft, out of an cial applications, including the of the One-Eleven production estimated total market of about Marots martime communications through the recently-signed 1,200 agreraft in the broad 'feeder-liner" category. It is Agency (as part of the Euro The latter provides for the likely to be an arena of fierce Agency (as part of the European MESH consortium); the licensed production of 80-plus
Intelsat IVA series of satellites One-Eleven twin-engined air(under contract to Hughes Airliners over the next 15 years.
craft of the U.S.); and (as prime The programme, worth many
contractor) the recent European millions of pounds in exports
Space Agency's GEOS-2 sciention of Britain, will move in phases
fic satellite.

A major contribution to the assembly of One-Elevens under A major contribution to the assembly of One-Elevens under with bigger aircraft, pass their

Michael Donne

# Growth

CONTINUED FROM PREVIOUS PAGE

any smaller short-to-medium range aircraft in the JET/
ATMR/757 category, while the
Rolls-Royce RB-211-535 engine

calculating the future strategy that the three major elements the Government through the Defor British Aerospace and Rolls in UK aviation—British Aerospace and British Treasury and Foreign Office,

at least a further £200m needed for some machinery that for the RB-432 "Spey Replace could try to harmonise these ment "for One-Eleven develop-disparate views well in advance ments and the RB-401 engine of Government international for smaller aircraft. Much of this investment will be generated internally by the industry developed without delay. A distance itself, but nonetheless the Government faces a major aero-space spending programme.

With investment of this lished that would in no way magnitude at stake, it is imperational negotiations on policy, so that the viscount, Comet, and other early post-war civil aircraft.

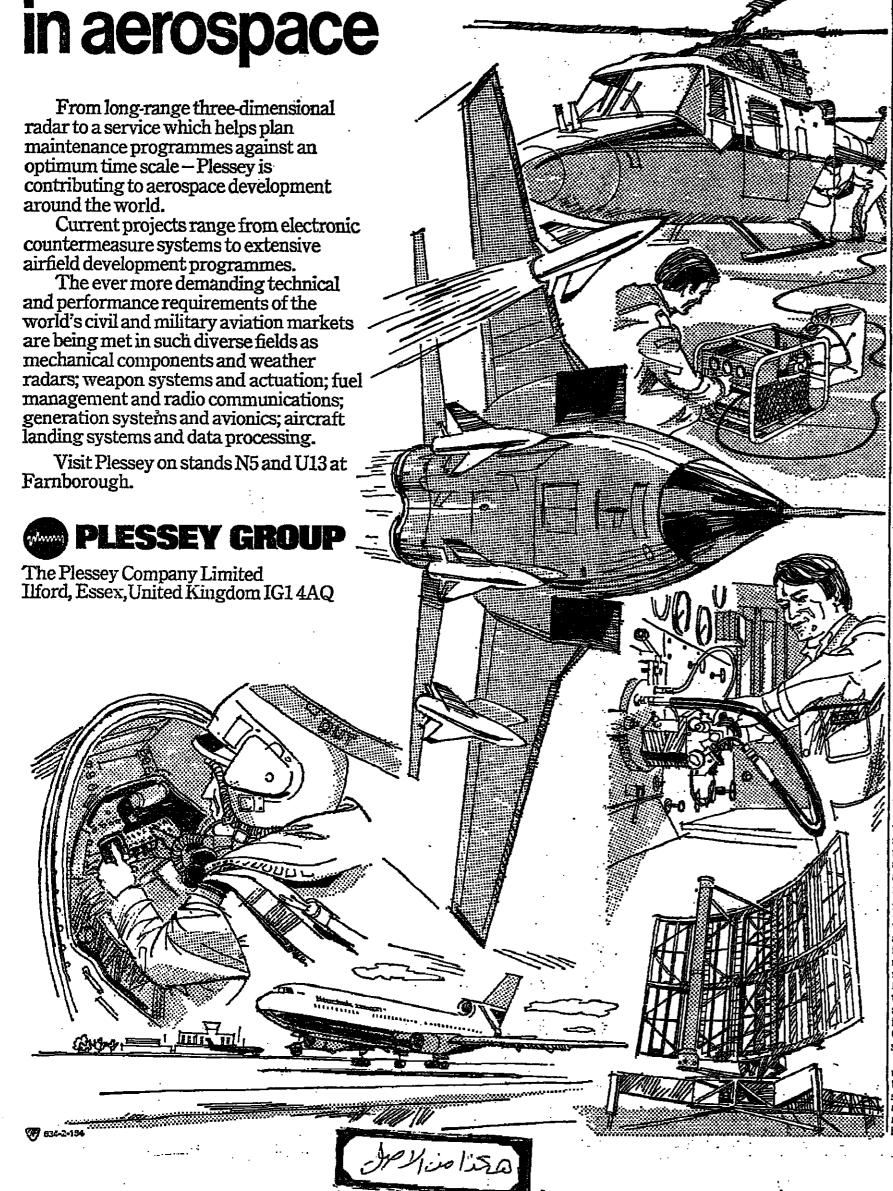
A similar kind of long-term strategic body has been set up this summer to consider future airports policy in this country, and there is every reason why a similar organisation, small and the day-to-day interfere with the day-to-day as they arise, obviating much of With investment of this insure man would in he day-to-day to solve problems in aerospace magnitude at stake, it is imperating for Reitleh Airways 2s they arise, obviating much of

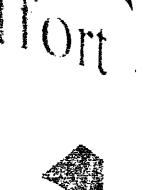
have been strong indications views, together with those of years past.

Royce is the volume of invest-space, Rolls-Royce and British Treasury and Foreign Office, ment required.

Airways—have been speaking and those of other elements in the programmes currently with disparate voices, with UK aviation, including the Civil envisaged collectively are likely British Aerospace anxious to Aviation Authority and even the to account for investment of link with Europe, and Rolls—more than £15n—the 146 alone Royce and British Airways "think tank") itself. In this will account for £250m, any share in the Airbus A310 for the 757 venture. This has unobjectives could be formulated, more than £200m, with over doubtedly delayed decisions on often well in advance of emerging market trends, and an overing market trends, and an overall UK aerospace policy laid down - much in the same way that the former Transport Airwill cost over £250m, and with What is clear is that there is of the late 1940s and 1950s at least a further £200m needed a need for some machinery that help to lay the groundwork for craft Requirements Committee

magnitude at stake, it is imperative from the day-to-day live that the UK industry is running of British Airways. Is the industry is running of British Aerospace of view that have characterised the lines. Over and the rest of the industry. recent months, however, there But it could harmonise their only this summer but also for

















**Brands** 

some major types flying the to the customer airline. Probbrands of engine—the Boeing exception to this broad rule of "if you want it, you can have all three of the "big thrust" it," is in the proposed Joint engines, the Rolls-Royce RB-211. the General Electric CF6 Series and the Pratt and Whitney versions of the twin-jet airliner some bitteriy contested battles specified at least initially with for engine contracts. The Rolls-Royce RB-211, for example, although the original "launch engine" for the Lockheed TriStar, had to fight hard to win wide availability of choice i the contract this summer from that the airlines which already Pan American for the engines have a specific manufacturers' in that airline's new fleet of 12 engines in their existing fleets long-range Dash 500 TriStars, of first-generation wide-bodied for Pan Am closely studied all jets, will also be able to specify three possible engine-airframe derivatives of those same powercombinations before deciding plants for any of the newthat the RB-211's performance generation airframes justified it in departing from coming forward. This applies to its long-standing commitment to the 200-seat A-310 on offer from

the financing terms offered by twin-jet airliner, now formally Rolls-Royce played a significant launched with the big order for part in winning the contract 30 aircraft from United Air for the RB-211, and it is becom- Lines; to the Boeing 777 tri-jet; ing a new fact of life in the and to most of the other designs commercial aircraft and acro- on offer in the smaller 130-180 engine market worldwide that seater category, such as the where competing projects are proposed Boeing 757 twin-jet balanced on a knife-edge so far and the McDonnell Douglas as performance is concerned. Advanced Technology Medium the order may well be won by Range (ATMR) programme. the project whose maker can offer the best long-term financial Fierce arrangements. The UK and European manufacturers have This comp quickly latched on to this situation, and it is likely that finance facturers is likely to become will continue to play as much a very fierce indeed, and some part as performance in settling very substantial sums have been, some of the big contests that and still are being spent by

cism in U.S. political circles shaping up in world markets. recently of the way in which In the UK, Rolls-Royce is airframe and engine deals won already strongly placed with the by European companies in the RB-211, which in its Dash 22 U.S. market have been sup- and Dash 524 versions has ported by government or other already won a considerable financial guarantees. The impli- reputation in both the Lockheed cation is that some of these TriStar and, with the Dash 524, deals have been won unfairly also in the Boeing 747. Now, a by the Europeans. This, of new version of the engine, the course, is nonsense. The U.S. Dash 535, is under development, aerospace industry itself has aimed at a thrust level between for long recognised that Euro- 30,000 and 36,000 lbs thrust, pean and UK airframe and en-thereby widening the sales gine products are of first-class opportunities of the RB-211quality, and that where those This version of the RB-211 programmes have been sup- has been designed to meet the ported by Government develop-need for a fuel-efficient, quiet ment money, it is only natural and economic engine for the that Governments should help new generation of medium-sized to underwrite sales. Moreover, airliners proposed for service in with the U.S. industry itself al- the mid-1980s, and in particular ready possessing more than 80 the proposed Boeing 757 twinper cent of the Western world's engined and 777 three-engined air transport markets, it cannot jets. As a "derivative" engine. complain if some European the Dash 535 retains the prove counter-attack is launched to advantage of the RB-211, but win back some of the ground has lower launch and introduclost over the past 25 years or tory cosis than a totally new more. Nevertheless, both the design. It has a low fuel conengine and airframe makers on sumption, and a thrust-to-weight this side of the Atlantic are well ratio up to 16 per cent better aware that the political ground- than for the earlier Dash 23B 

on recent European deals for more than adequately recouped U.S., which he described as emerge worldwide for the 757 having gone beyond an inter- aircraft in the years ahead, with port credit terms for com- reaching as much as £1bn.
mercial aircraft." He said that But the competition is unat a meeting this October, an doubtedly formidable, Pratt and export credits panel of the Whitney, for example, is offer-Organisation for Economic Co- ing the JT-10D-in itself a operation and Development "family" of engines, spanning (DECD) will provide a forum to a take-off thrust range of be-

up for battle WITH THE long-awaited re- begin negotiations to tween 25,000 and 35,000 lbs— of short-to-medium range jets— least a part of this gap, it has equipment tide now on the verge "strengthen" the international which means that they will be All of these UK and U.S. been working for some time on of flowing through the world's export credit understandings, in- capable of competing with the power-plants are designed to be two engines, the RB-401 and airline and aerospace industries, cluding those dealing with air- Franco-U.S. CFM-56 at the lower ultra-quiet, so as to meet the RB-432. The RB-432 is a new

tions, all the new-generation airframes being proposed on both sides of the Atlantic are being offered with a choice of developeration of the high cost of developeration of the restance of the vork on this new family of the work on this new family of the

For the new generation of short-to-medium range jets now on offer or proposed, the choice This is already resulting in of engine is being left absolutely world routes with different ably the only significant JT-9D. It is also resulting in planned in this series are being (Snecma-General Electric) CFM 56 engine.

One immediate result of this engines from Pratt and Whitney. Airbus Industrie as well as the bigger B-2 and B-4 versions of In that particular competition, the Airbus; to the Boeing 767

the engine builders to perfect There has been some criti- their entries for the battles now

Airous sale to Educate Air
Lines, for example, and the done on it at Rolls-Royce's Derby factory and Rolls-Royce is work-Am) may result in moves to block such sales in future on the grounds of "unfair competition."

Earlier this summer, for which Boeing is planning as example, a U.S. Treasury official part of its new family of jets involved in international trade for the rest of this century and policies, told a Rouse of Representatives Ways and Means Submer, core to the Dash 535 is sentatives Ways and Means Sub- ment cost of the Dash 535 is Committee that the U.S. Govern-espected to be in the region of ment was concerned over some £250m, but Rolls-Royce argues of the financing arrangements that this investment will be engines and airframes in the from the big market that could national understanding on ex-sales of the engine perhaps

For with only very few exceptions, all the new-generation to win sales in the U.S. market. 777 aircraft. Pratt and Whitney many countries.

Engine makers gear

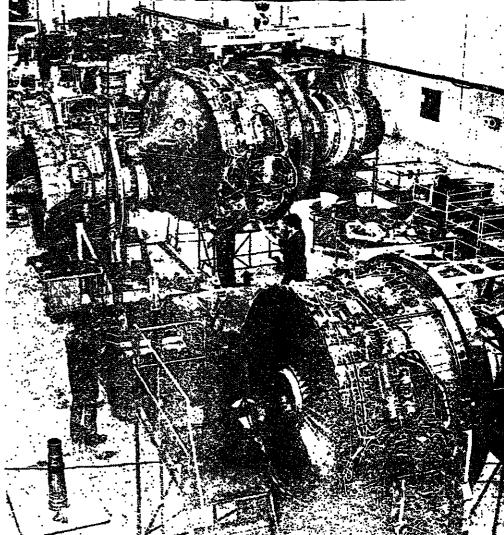
airline and aerospace industries, cluding those dealing with airtine major aero-engine manufacturers are gearing up for what
may become the biggest commercial struggle they have seen
for many years, to win the
power-plant contracts for the
power-plant contracts for the
merging from the airframe
builders' project offices.

For with only very few excep
structure and engine exports from end of the scale, and both the
scale, and both the
increasingly stringent noise
requirements that will become
mandatory at many world air
requirements that will become
mandatory at many world air
requirements that will become
mandatory at many world air
requirements that will become
that if other countries did not CF6 Series at the upper end.
This implied 22,000 lbs take-off thrust, designated as also designed for improved fuel
forced to retaliate. This implied 32,000 lbs take-off thrust, designed for improved the
forced to retaliate. This implied 32,000 lbs take-off thrust, designated and political interpretation of jets now
threat of retaliation, however, is nated JT-10D-132, with certificanot deterring the European airton planned for December, to rise and when energy-saving
programmes will become
that if other countries did not CF6 Series at the upper end.

In the 16,000 lbs thrust class, that
could effectively be a Spey
replacement engine for the
future, suitable for a new twinengined aircraft of the 100-120
passenger size, as well as for
craft and engine manufacturers 1981. This engine is specifically programmes will become
that other countries did not CF6 Series at the upper end.

In the 16,000 lbs thrust class, that
could effectively be a Spey
replacement engine for the
future, suitable for a new twinengined aircraft of the 100-120
passenger size, as well as for
to reading the increasingly
stringent noise
requirements that will become
mandatory at many world air
requirements that will become
in the 16,000 lbs thrust class, that
could effectively be a Spey
replacement engine for the
future, suitable for a new

Below the RB-432 in thrust



Production at Rolls-Royce Derby of the 48,000-lb thrust RB-211-524 engines selected by Pan American World Airways to power the Lockheed TriStar airliners

# We're world leaders in gas turbine technology

Somewhere around the world, during the next two minutes, a Rolls-Royce powered aircraft will be taking off.

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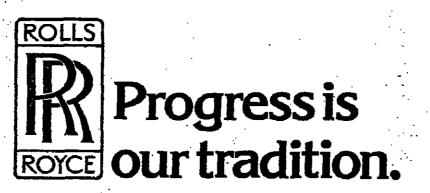
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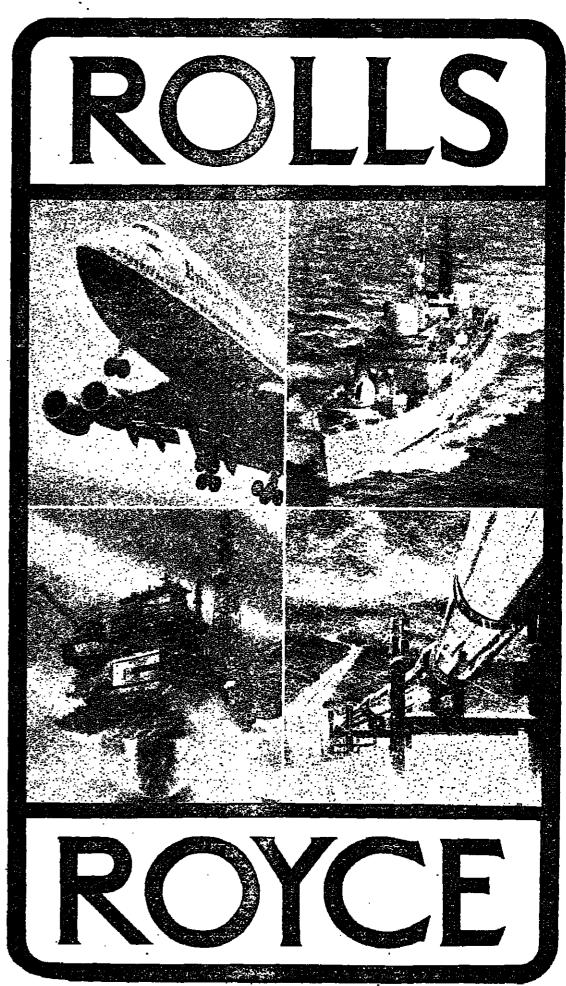
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# Military aircraft sales

THE MARKET for military Indeed, some of the countries aircraft throughout the world of the Middle East have been U.S. military aircraft produc-

tion alone in the current Arab amount to close on 1,000 air- Among the Arab nations, craft, although this includes plans to develop a military air-

wing tactical aircraft fleet now outnumbers that of NATO by

continues to be strong, with especially vigorous in developevery sign that demand may ing not only their air forces but increase rather than slacken in also their own indigenous aerothe immediate future. Esti- space industries in recent years. mates of likely sales are difficult Israel, for example, now has one to obtain, but with growing of the world's most active aeroemphasis on conventional space manufacturing groups, weapons most reliable forecasts Israel Aircraft Industries, which indicate that between now and although perhaps small by the 1990, several thousand new standards of the UK and U.S. military aircraft of all types are aerospace industries is nonethelikely to be added to the NATO less formidable in its technical inventories alone, including, for achievements, having already example, more than 800 Panavia built the Kfir supersonic com-Tornado multi-role combat air- bat fighter in substantial num-

such widely diverse types as the craft production capability con-McDonnell Douglas F-15 Eagle tinue through the Arab Organiand General Dynamics F-16 air-sation for Industrialisation superiority fighters, the (AOI) and in recent months Fairchild Republic A-10 close air support aircraft, the Boeing E-3A Airborne Warning and Control Systems and various Control Systems and various aircraft manufacture in Egypt helicopters such as the new on behalf of a consortium of Utility Tactical Transport Arab nations including Saudi UH-60A (of which over 1,000 Arabia Qatar and the United are eventually expected to be Arab Emirates. Companies in built).

the UK which have benefited One of the main aims in from this include Westland Heli-NATO in maintaining such a copters, which is selling its high production flow of military Lynx multi-purpose helicopter

various countries, including will be the combat types that frames are concerned—are their air power, and are likely types as the UK-West German- implies that any such derivato continue to do so for some Italian Panavia Ternado multi- tives will incorporate only role combat aircraft, the new minor changes or improve-



The U.S. General Dynamics F-16 air-superiority combat aircraft is now in quantity production on both sides of the Atlantic for the U.S. Air Force, and for the air forces of Belgium, Denmark, Holland and Norway, under a joint international manufacturing programme.

conventional tactical combat aircraft taking high priority. Some
It seems likely that, so far as cost of development and producthere appears to be also for this however, in view of the time it over the battlefield in the late
of the most lucrative contracts the West is concerned, the tion of entirely new military
of the most lucrative contracts the West is concerned, the tion of entirely new military
of the new tions of the

#### Cautiously

changing requirements.

various countries, including will be the compar types that traines are content of from the belief, expressed by formance capabilities of military, Israel, and various Arab will dominate the NATO likely to be derivatives of existnations such as Saudi Arabia, armouries through the 1980s ing or proposed new types from
have been steadily building up and beyond. These include such the list above. This in no way
have been steadily building up and beyond. These include such the list above. This in no way
Atlantic in recent years, that HiMAT, for Highly Manoeuvr.

Surveyllance role. Thirdly it improved delivery systems, are has two objectives—to Harrier today. This implies likely to be of considerably more accelerate aeronautical design either vertical take-off and land-importance than improvements advances from the research ing capability, or at least verying absolute speed. The aim from laboratories into flight testing, short take-off and landing. y to find the most cost- niques that will speeds and greater combat alti- U.S. has designed and built a cated environment. tudes, with what is actually remotely-piloted research Considerable emphasis is desirable in military terms. vehicle about half the size of being placed on this venture in

be felt in the avionics (airborne years ahead. pressure to improve things like French Jaguar jet strike-trainer,

for Western aerospace manufacture communication aircraft already in aircraft, most of the new tionary concept to be adopted. U.S. is already embarking on the Middle East, where today for the immediate future beyond—at least so far as air. One contributory factor to this a major research programme flexible aircraft in its perfor-Factors which have to be borne in mind in calculating this extremely complex equation include the continued rapid build-up of Soviet and Warsaw Pact conventional forces, with a heavy emphasis on battlefield support and an increasing superiority in terms of numbers of tactical combat aircraft, to-Factors which have to be a modern combat aircraft, that the RAF, for it will be crucial superiority in terms of numbers of tactical combat aircraft, together with what new types they are likely to develop in the years ahead. There have been years ahead. There have been the U.S. is not about to embark progressively whittled down to various reports emanating from the U.S. is not about to embark progressively the Soviet Union, mostly unsubthe very advanced techniques stantiated, of radical new ideas that HIMAT itself will test. It for combat aircraft, but so far may be some years before the "Mig-25" Foxbat replacedesigners can utilise even some that the company of ment has not emerged — of the simplest of the new ideas
although an advanced version that HiMAT will test, and it is solutions is now being increas-

> today's more stringent economic for service in the late 1980s and aircraft. climate it must take forward beyond, to meet specific require- International climate it must take forward beyond, to meet special require. International collaboration jumps cautiously—that the ments which can already be seen on such a venture, however, well tried techniques may to be emerging. In the U.S., both seems inevitable. In view of still be capable of adaptation the Defence Department and inflation between now the late for new tasks, although in the Air Force are studying de- 1980s, when AST-403 is likely start to arrive the arrive the

high production flow of military aircraft for the immediate future is to try to redress the imbalance that has emerged vis-avis the Warsaw Pact. for in the central region of Europe alone the Warsaw Pact's fixed-wing tactical aircraft fleet now aerospace interests are also F-15 Eagle: the General and proven combat capability ing procedures, for improved Air Staff Target 403, embodying negotiating weapons deals with Dynamics F-16, the combined has already been established guidance systems for weapons; many conceptual studies of the AOI.

Also in the Middle Fact Iran At the same time, despite efforts by the U.S. and other countries to de-escalate the so-called "arms race" throughout the world, and especially in the field of strategic nuclear weapons, many countries continue to spend substantial sums on weapons of all kinds, with conventional tactical combat aircraft taking high priority. Some

McDonnell Douglas / Northrop with a given design, increasingly and for better all-weather and what such an aircraft ought to the tendency is likely to be to day-and-night operational performance. It is in these fields formance. It is in these fields formance. It is in the sought same develop from it and adapt it, for which it asks of U.S. combat aircraft as the McDonnell Douglas / Northrop with a given design, increasingly and for better all-weather and what such an aircraft ought to the tendency is likely to be to day-and-night operational performance. It is in these fields formance. It is in the immediate future and start again from the timedate future and start again from when cash will be sought and especially in the immediate future and helicopters, and is now also establishing an aircraft would be required to which it is seeking Western than throw it away that innovations will be sought are than throw it away that innovations will be sought are then throw it away that innovations will be sought rather than throw it away that innovations will be sought rather than throw it away that innovations will be sought are then inneediate future and helicopters, and is now also establishing an aircraft would be required to where much of the available development cash will be spent.

Although very little is revealed about the detailed philosophy of Soviet combat aircraft development, the tendency is likely to be to day-and-night operational performance. It is in these fields formance. It is in these fields formance. It is in these fields formance. It is in the innovations will be sought that innovations will be sought that innovations will be sought that innovations will be sought and in th

> emphasis on derivatives stems to determine the possible per-from the belief, expressed by formance capabilities of milicombat aircraft performance able Aircraft Technology, this surveillance role. Thirdly, it may now be on the verge of a programme is being run by the will need to be capable not only plateau," where refinements or National Aeronautics and Space of using hard runways but also existing capabilities, in terms of Administration in conjunction rough airstrips in the forward more devastating weapons with with the U.S. Air Force, HiMAT battle zone, rather like the now on seems more likely to be and to expand design tech- Finally, although it must be permit able to carry effective balance between what quantum jumps in performance armament, it must be simple is undoubtedly aerodynamically from one generation to the next, and rugged, for it will have to achievable in terms of faster Rockwell International of the operate in a very unsuphisti-

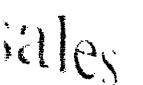
called Foxbat E is known to likely to be at least a decade ingly discussed with the air exist, and advanced swinging-before they begin to take shape forces and aerospace industries wings strike aircraft like the in combat aircraft on the draw- of the NATO countries, to discussed the combat aircraft on the draw- of the strike in combat aircraft on the draw- of the strike in combat aircraft on the draw- of the strike in combat aircraft on the strike in combat aircraft on the draw- of the strike in combat aircraft on the strike in the strike in combat aircraft on the strike in the strike in combat aircraft on the strike in the strike in combat aircraft on the strike in supersonic Sukhoi Su-19 Fencer ing boards and in the project cover if there is any comparable are increasingly seen as the offices. HiMAT, however, does requirement emerging with main air threar in the NATO Gentral Region.

U.S. to look well ahead of an international collaborative existing concepts, and seek to effort on the AST-403 can be find solutions to problems which evolved. The Defence Ministers are only now beginning to sur- of the UK. France and West face in high-speed combat air- Germany have already broadly So far as NATO is concerned, craft technology and which are agreed that such studies should So far as NATO is concerned, craft technology and which are agreed that such states account of themselves imperfectly under continue, but there is so far little indication of major West of saving costs and of improving
overall military efficiency. The get greater value for money the venture, and it seems so far
RAF itself makes no secret of can be seen in the few new that the UK has the most pressthe fact that it believes that in types that are being prepared ing requirement for such an

accepting this philosophy this is signs for a new, low-cost, simple to arrive, the overall design, not to suggest that the radically ground-support fighter for the development and production new is not likely to be accept, late 1980s called "Bush cost of the programme is likely able or even essential to meet whacker" or "Bushfighter," to be several billions of pounds the emergence of new or swiftly that could be used as a tank—probably matching or even buster in the Central European exceeding the cost of the Thus, it seems likely that many of the types listed above General Dynamics, Grumman, likely that the UK will require are likely to be seen in service, Northrop, Vought and Rockwell, upwards of 400 aircraft alone in one form or another, for and the aim is to produce an to meet its Harrier and Jaguar rocket of this cupture. much of the rest of this century, and the aim is to produce an to meet its Harrier and Jaguar in any event, only in the late costing possibly no more than duction programme is also of the military, technological and economic circumstances prevailing at the time, will any radically new designs begin to emerge for service in the next century. Thus, for the imme.

The U.S. Navy has also begin to will therefore be essential. If emerge for service in the next equipment about a will therefore be essential. If century. Thus, for the imme. The U.S. Navy has also begun it does not prove possible to diate future, most of the basic a competition to find a new achieve such collaboration with demand for improvements in cheap trainer aircraft, of which combat aircraft technology will it will need 1,000 or so in the of differing time-scales of milielectronics) and weapons fields. In the UK work is being tary aircraft replacement needs, rather than in the airframe field, pressed ahead on the long-although it does seem likely that discussed combined replacement other directions, it is possible that the UK might seek collabined the engine manufacturers will for the British Harrier vertical find themselves under increasing take-off aircraft and the Anglo-oration in the U.S.





# The next generation of airliners

ALL THE signs now are that lack of adequate cash reserves the 200-seafer category, and in seating 136 passengers and what to do about the smaller the long-expected re-equipment among many carriers.

effect a direct competitor for JET-2 seating 163. Other confamily of aircraft will still have tide has begun to flow through

A more significant factor has the 310. The Boeing 767, cost-tenders in this field include the to be settled—but in a less the world's airlines, and over also been that many of the ing \$25m per aircraft, won an proposed U.S. McDonnell urgent fashion. The main the next few months there is existing types of airliner, such order for 30 aircraft worth over Douglas advanced Technology emphasis at present in world likely to be a steady inflow of as the Boeing 737 and \$1.2bn from United Air Lines Medium Range (ATMR) jet markets appears to be on the

the vast majority of the world's fact, for some time, in the shape also had originally a design for and where most of the growth A-300 Airbus, which has in the shape and where most of the growth A-300 Airbus, which has in the shape and where most of the growth A-300 Airbus, which has in the shape and where most of the growth A-300 Airbus, which has in the shape also had originally a design for with the Japanese aerospace ment gave British Aerospace industry. in the future is likely to past year or so begun to sell has shelved its plan to compete occur. The rest will be spent extremely well, winning major in this section of the future largely in the long-haul field orders in its B-2 and B-4 aircraft market. (about \$24bn, or over £13bn), versions worldwide. with a much smaller sum of about \$3bn going on cargo jets Launched to meet the growth in this sector of the commercial airline

stantial, as operators move hall jets, and the Boeing 727 in the Western world)—a con- All of these designs will be twin- clear that some decisions on quickly to secure their places in medium-haul airliner, have con- tract for which the Airbus engined, with a variety of power- the smaller jet family will also the delivery queues for a new tinued to meet more than Industrie group had also fought plants.

The JET family, for example, this year. The questions who range civil airliners.

airlines, and have continued to Recently, two, Lockheed of is being designed round the new will move first—Boeing with It has been estimated that beself so well that Boeing has been California staked a claim for a Franco - U.S. (Specma - General the 757, McDonnell Douglas tween now and the mid-180s, obliged in recent months to step share of this 200-seater market. sums approaching \$74bn or up the production rate of the by confirming that it was now the ATMR and Boeing 757 peans with the JET series?

expanding at an average annual soil well over the next few the General Electric CF-6 series, General Electric CF-6.32 struggers and to replace rapidly new-generation of jets will Lockheed said that the Dash 400 and the Pratt and Whitney ageing fleets that will become be needed to carry the world's TriStar would be able to carry JT-10D (a new engine). increasingly unacceptable in the air traffic into the 1990s and 230 passengers over ranges of mid 1980s as fuel costs rise and beyond, to meet the needs of 3,200 to 5,050 nautical miles. Spread increasingly stringent noise airlines who will need to be Lockheed claimed that the Dash

new orders, some of them sub- McDonnell Douglas DC9 short- of the U.S. (the biggest airline transport, and the Boeing 757, bigger 200-seaters, but it seems

\$40bn, will be spent by airlines 737 and 737, while McDonnell making firm offers to airlines specify any one of the three Most observers believe that throughout the world on up. Douglas has found it worthwhile of its new version of the Triwards of 3,000 new airliners of to launch a new version of its star, the Dash 400, based on all sends of the three Most observers believe that throughout the world on up. Douglas has found it worthwhile of its new version of the Triwards of 3,000 new airliners of to launch a new version of its star, the Dash 400, based on all sends both to meet the con-ubiquitous DC-9, the Series 80. three of the big-thrust engines—send generation of "big-thrust" this year, but whoever moves any other properties. tinued rapid growth of world But while all these aircraft the Rolls-Royce RB-211-22B, the engines—the 535 derived from first is likely to spark off anair passenger traffic (it is now can be expected to continue to Pratt and Whitney JT-9D and the Rolls-Royce RB-211, the other major re-equipment

where the future re-equipment situation seems uncertain. The so-called "feeder-liner" market, for example, in which small 70 to 100-seater airliners are

in this section of the future aircraft market.

The battle of the 200-seaters is now joined, with the Being directly slogging it out in world markets with the Boeing 767

The battle of the 200-seaters is now joined, with the Being 767

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The battle of the 200-seaters is now joined to be including the Dash 7 already in been under discussion for most version of the aircraft is also of the past summer.

Thus, the 146 may not have —that is, an airliner seating new developments now under things all its own way.

The past summer.

Thus, the 146 may not have —that is, an airliner seating new developments now under things all its own way.

economic situation from the announcement of the formal under the aegis of Airbus rejoin Airbus Industrie, and good chance of winning orders rest of this century. recession that followed the oil launching of the Boeing 767, Industrie, in which there would participate in the development for up to 350 aircraft, repre- Underneath the 747, h

The Boeing wide-bodied twin-engined 767 is one of the new generation of shortto-medium haul jet airliners for the mid-1980s and beyond. This 200-passenger aircraft, capable of flying over distances of 2,300 statute miles, has been ordered already by United Air Lines, the biggest airline in the Western world, thus launching Boeing's \$1.5bn development programme for the jet. It is the first new Boeing aircraft design to go into production since the 747 Jumbo jet in 1966.

regulations are introduced at many of the world's major air.

An analysis of this expected expenditure shows that more expenditure shows that more data may be found the world and be found to the manufacturer is developments which some of likely to contemplate it. Both the manufacturers seem keen placed orders for this "feeder and more fuel-efficient to the manufacturer is developments which some of the manufacturer is developments which some of the problem with most of to 100-seater airliners are ably. So far, no airlines have placed orders for this "feeder and more fuel-efficient to the manufacturer is developments which some of likely to contemplate it. Both the manufacturers seem keen placed orders for this "feeder and more fuel-efficient to the manufacturer is developments which some of the world which have placed orders for this "feeder and more fuel-efficient to the manufacturer is developments which some of the world which have placed orders for this "feeder and more fuel-efficient to the manufacturer is developments which some of the manufacturer is development or ably. So far, no airlines have placed orders for this "feeder" but the manufacturer is development or ably. So far, no airlines have placed orders for this "sevent have placed orders for t than noit of it. or \$470n

The first of this "new off, and a new fuel management of the specific from small airfields of the world by company in particular planning in terms of money, manpower specific from small airfields of the burden of costs and into bigger "bub" airports, is second-hand twin-iets such as to "effect the burden of the specific from small airfields of the world by company in particular planning in terms of money, manpower widen the market Region between the specific from small airfields of the world by company in particular planning in terms of money, manpower widen the market Region between the specific from small airfields of the specific from smal spread the burden of costs and into bigger "bub" airports, is second-hand twin-jets such as to "stretch" the DC-10 from its and factory capacity on their

It is thus in this short-to 200-seat category of aircraft, medium range section of the market that must of the interest has so far been concentrated, with manuffacturers on both swith manuffacturers on both swith manuffacturers on both with two woo the airlines with which to woo the airlines. The latter for a long time appeared to be extremely solucion to commit themselves.

It is thus in this short-to 200-seat category of aircraft, the question of collaboration of the question of collaboration of the question of collaboration on the question of collaboration on the same time, tuere is the pushed ahead rapidly with some the same time. Usere is discussed and appeared to be extremely solucion from the question of collaborative deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be gestation stage—those seating being not complete turbo—propeller for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be gestation stage—those seating deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be collaborative deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be collaborative deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be collaborative deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on those very long run of success. This type of aircraft would be collaborative deal on the 757, done on it over the past four for the big Boeing 747 Jumbo useful on the stations of the way seems clear for a con-would be average transport in useful on the same time, tuered to the seating participation in manute.

The past land and on the 750 on the Airbus, medium tanges, but serving as offe appeared to be extremely Swissar, and with several other anything upwards of 1,000 air. The possibility of UK collabora- recession. Now, it is intended a channeller to the position which a number of manufacturers have been looking, but the sion recovery of the world's followed by the long-awaited (JET) venture, which is also Even if the UK does eventually be met, the aircraft stands a flow of new orders through the contract.

The possibility of UK collabora- recession. Now, it is intended a channeller to the position which a number of manufacturers have been looking, be able to use small airports, with 4,000-feet long runways, reasons. Among these has been the A310 launch was quickly Joint European Transport ATMR has also been discussed. 1981-82. If this timescale can will continue to win a steady itself with a four-engined B-11 the slow recovery of the world's followed by the long-awaited (JET) venture, which is also Even if the UK does eventually be met, the aircraft stands a flow of new orders through the to carry 180-200 passengers over lower noise levels than other through the continuous of size levels than other through the continuous of si

Electric CF6-32 strongle in this smaller jet marfrom the CF6 series, ket.

Pratt and Whitney

There are various other areas

There are various other areas world market estimated at medium-to-long range "tri-jets," for over 4,500 nautical miles

widen the market. Boeing has now becoming a lively issue an agreement with Aeritalia of with some manufacturers.

Italy and has been discussing with some manufacturers.

This summer, the UK Government with Lapanese aerospace with the Lapanese aerospace w with the Japanese aerospace ment gave British Aerospace industry plans for substantial permission to go ahead with the contributions from both fro

now to come in the smaller. Below this 200-seater category At the same time, there is The plan is for the 146 to be At the upper end of the much fewer than either the 747. Lockheed programme to pro-6,000 nautical miles: while lower noise leve Boeing is proposing its 777 types of aircraft.

M.D.

# There is only one modern jet that can generale regional traffic profitably. The new Folker F.28.3 Great where others are too big.

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city - but still a long way from-

filling other jet arrcraft. The jump from say 40 to 130 seets is simply too big. You need something in between to make the move to jet equipment a committelly viable

propostion. // // // //
You need the dest skiker F 28 Because the rew Folker

ned to make a croffit where other jets can't - on the short and medium haul, low to medium

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resistant afrirame and low-noise

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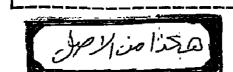
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# Big market for helicopters

civil market.

The major growth areas for the helicopter are in the oil, Battles and development fields, executive transport, agricultural battles that is developing is between the various types of applications, law enforcement, emergency medical services of all kinds and the entire transport agricultural aviation and pilot programmes.

The smaller U.S. companies are also reporting strong growth. Enstrom Helicopter agreement, light twin turbine-powered corporation this year plans to pames themselves have begun

between 200 and 300 miles, has

#### **Emerging**

and supply dropping, while in the military field, Sikorsky manufacturers dominate the delivered out of more than 900 creasingly being used for log is developing a new utility scene — Westland of the UK, on order, while close to 600 ging operations and fire-control.

Rest Hawk on III and for the District Control of the UK, on order, while close to 600 ging operations and fire-control.

surveying work.

of the fastest growing areas of logistics, work-horse, troop high, with production of some including a new anti-tank heli-world aviation, both in manu-carrier, and combat weapons models sold out already, included copter, a new tactical transport facture of aircraft and in the carrying system—the "helicop-ing the single-turbine model 205 helicopter and a bigger replaceuse of the finished civil and the gunship" concept. As a and the general purpose twin-ment for the Sea King helimilitary products. While the result, significant new military turbine model 212, with copter. Each of the four main number of flying hours per helicopter design and develop-deliveries of these expected to European companies has ideas formed by helicopters is still ment programmes are already be up about 15 per cent from for aircraft in one or other of nowhere near the volume of emerging and more are the 1977 level. The sales back- these areas, and they have col-

ment to exploit those reserves, especially in the immediate offshore areas in many parts of the world. The helicopter is ideally suited to help exploit those offshore development programmes, in view of its inherent flexibility—its ability to land and take-off from small platforms which fixed-wing aircraft cannot use.

The corporate executive models. The S-61 series of corporate use.

So far as "big lift capability" and weight, and will carry advanced electronics for anti-source oil and gas support and market is limited to the 18,000 other transport purposes. The 20,000 lbs capability offered by cargo transport helicopter for but orders are slow to emerge. Boeing-Vertol is considering a by the USAF for search and civil version of the military transport helicopter. The planned date of entry into service is 1988.

The corporate executive of the Sea King size concerned, the commercial and weight, and will carry advanced electronics for anti-submarine warfare as well as but orders are slow to emerge. Boeing-Vertol is considering a by the USAF for search and civil version of the military transport helicopter. The corporate executive operations. A commercial version of this aircraft, the S-65C, is under considera. There is a growing demand for the sex King size concerned, the commercial and weight, and will carry advanced electronics for anti-submarine warfare as well as but orders are slow to emerge. Boeing-Vertol is considering a but orders are slow to emerge. CH-47 Chinook of 28,000 lbs lift transport helicopter. The cargo of the sea King size concerned. The commercial version of the submarine warfare as well as having a major search and civil version of the military it will also be suitable as a civil transport helicopter. The cargo of the sea King size concerned. The concerned the commercial and weight, and weight and weigh craft cannot use.

The corporate executive tion. The CH-53E, an upgraded big lift capabilities, Westland's forecasts are that transport area is another that is version of the S-65, is being especially in the offshore oil and future sales of Sea King and particularly significant for the developed for the U.S. Navy gas industries, and in the com-Commando helicopters will helicopter. The rapid increase and Marine Corps use as a struction and logging industries, sustain the company's present in demand for smaller, comfort in demand for smaller, comfort- heavy-lift transport. Equipped The Commercial Chinook has production capability of 11 to able civit helicopters to take with three engines, it is more already aroused the interest of 2 aircraft a month for some

In engineering, they are being Black Hawk or UH-60A for the schmidt-Bolkow-Blohm of out of 700 ordered.

U.S. army. This will be one of Western Germany and Agusta In the meantime, a number purposes as electric transmis. the most significant helicopter of Italy. These four companies of other new helicopter desion line construction, and aerial programmes for the 1980s, with have already captured substantial and aerial programmes for the construction are under way in These specialised uses for the aircraft, representing over business, especially with the many are jointly developing helicopter have helped con-siderably to bring this branch variant of the Black Hawk, the between Westland and Aéro- tank helicopter, between Aéroof the world areospace industry SH-60B, has also been selected spatiale on such aircraft as the spatiale and MBB. Aérospatiale, to maturity. Coupled with this by the U.S. navy for the Light Lynx multi-role helicopter, the now rapidly emerging as one has been the fact that the manu- Airborne Multi-Purpose System Gazelle liaison aircraft, and of the world's major civil helifacturers have devoted consider- (LAMPS), calling for a product the bigger Puma tactical trans- copter manufacturers, with ably increased attention to tion run of more than 200 air- port helicopter. These three air- over half its output for civil improving the technology of the craft worth more than \$750m. craft have been developed purposes, is working already on helicopter, with more reliable Lamps missions will include under the long-standing Anglo the Super Puma, a higher perrotor-heads, more efficient com- anti-submarine warfare and French helicopter package, formance derivative of the existposite materials, improved enti-ship surveillance. Sikoraki, containing the technology of the Lamps wishing already on
helicopter, with more reliable Lamps missions will include under the long-standing Anglo the Super Puma, a higher perrotor-heads, more efficient com- anti-submarine warfare and French helicopter package, improved enti-ship surveillance. Sikoraki, containing the developed purposes, is working already on
helicopter, with more reliable Lamps missions will include under the long-standing Anglo the Super Puma, a higher perrotor-heads, more efficient com- anti-submarine warfare and French helicopter package, improved enti-ship surveillance. Sikoraki, containing the surveillance and the surv

restructuring their models are concerned, demand types of helicopter for service

THE HELICOPTER is now one plans round the helicopter as a for the coming year is already from the mid to late 1980s. that by fixed-wing aircraft, it is expected over the next decade log is reported to be strong for lectively been studying the nonetheless rising at a spectacular rate, especially throughout ments are the U.S. helicopter Ranger series. Bell expects to an industrial basis on one or the countries of the Third manufacturers. During 1977, deliver about 110 helicopters to more of these new types. At this World, and is expected to contribute they collectively delivered about the international market in stage, following the Defence tinue. So far as sales are con- 950 aircraft with a total value 1978, about the same as last Ministers' agreement, the aim tinue. So far as sales are con- 950 aircraft, with a total value 1978, about the same as last Ministers' agreement, the aim

doubling every three to five were not able fully to meet the powered 300C three-seat light Ministers in early 1979. From years, with special emphasis on demand that built up in 1977, helicopter and the larger model that meeting, it is hoped that the development of new types and it is likely that this pres- 500D. The latter is some decisions will emerge that of aircraft for the expanding sure will be sustained in 1978, especially prominent in com- will crystallise much of the curpany and executive markets, rent thinking into firm indus-while the 300C is of interest in trial design and development agricultural aviation and pilot programmes

executives directly from powerful than the S-65, and has British Airways Helicopters, for time to come, with follow-on factory to factory, especially in a payload capacity of over 16 use in its extensive North Sea orders from Sea King the U.S. over distances of tons.

One and 200 miles has been supported by the company tons.

oil and gas support operations, customers likely. The company
The S-76 is a new all-weather and Boeing-Vertol has said that is also confident of more sales encouraged the manufacturers helicopter designed for come it could get certification for the Lynx multi-role helito either convert existing mercial applications from the civil Chimook some 27 months copter, especially of the Navy designs to civil use or to "custom design" new aircraft for this
purpose, especially in the light
purpose, especially in the light
twin-engined area.

mercial applications from the civil Chimook some 2. Months copter, especially of the lively
trans- after a customer's decision to Lynx, with interest being shown
but the light
general utility. It is claimed to the programme. Boeing is
have major technical advances believed to feel that it could sell

Out of total orders for the

is for the Chiefs of Staff of the cerned, it is estimated that of about \$400m, compared with year.

is for the Chiefs of Staff of the these amount now to more than 775 aircraft, worth about \$305m, Hughes Helicopters anticifour countries, in conjunction fibration worth of aircraft a year in 1976. The U.S. industry's own pates that this year it will with the helicopter industries to the conjunction of the c world-wide, and most of the estimate is that in the current deliver about 365 civil aircraft, produce a report on the comajor manufacturers remain year it will deliver over 1,100 compared with 334 last year, ordination of requirements and convinced that this figure will units, with a value of \$425m, with continued emphasis on timescales, to be submitted to continue to grow, probably The manufacturers say that they such models as the piston- the next meeting of the Defence

emergency medical services of all kinds, and "heavy lift," for example in the construction and forestry industries.

In this life power of corporation this year plans to general purpose helicopter deliver 120 aircraft, against 102 to move in these directions. Westland is now working on the Sikorsky S-76, and the Bell international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model 222, both international deliveries to about the seight-passenger model and the seight-passenger model So far as the oil, gas and mineral industries are concerned, as the frontiers of exploitable reserves are extended, so is demand likely to grow for vehicles and equipment to exploit those reserves, especially in the immediate eight-passenger Model 222, both of which will become available to the doper cent of total production. This company specialises in two piston-powered models, the some 7,000, is one of the biggest to grow for vehicles and equipment to exploit those reserves, especially in the immediate eight-passenger Model 222, both of which will become available this company specialises in two piston-powered models, the some 7,000, is one of the biggest to grow for vehicles and equipment to exploit those reserves, especially in the immediate eight-passenger Model 222, both of or which will become available this company specialises in two piston-powered models, the some 7,000, is one of the biggest to grow for the utility market, and the 280C Shark for as yet, but it is expected to be commercial helicopters is widely so far as "big lift carabilities" roughly of the San Vice of the

which result in improved speed, at least six commercial Chinooks range payload, fuel economy, a year for North Sea oil operations and reliability. The S-76 also tions alone, every year through has potential non-commercial to 1990, with many other sales to operations such as in search and operators in the "utilities" field.

Out of total orders for the while of 183 aircraft, over 150 have been delivered, while of 32 Commandos ordered operations such as in search and operators in the "utilities" field. But a number of other major new uses for the helicopter are emerging, especially in the agricultural industry, where their flexibility is ensuring a growing employment in crop-spraying and supply dropping, while in the grant and supply dropping, while in the forestry field. Sixorsky manufacturers dominate the forestry field non-commercial to 1990, with many other sales to operators in the "utilities" field. Lynx orders for over 280 aircraft, over 65 have been delivered, while in the joint Anglo-French Gazelle programme 800 aircraft have been the forestry field they are in the forestry field. Sixorsky manufacturers dominate the delivered are delivered to 1990, with many other sales to operators in the "utilities" field.

a stated requirement for 1,107 tial shares of world belicopter Europe. France and West Gerposite materials, improved anti-ship surveillance. Sikorsky through which over 1,800 airpower-plants and airborne electronics systems, thus giving the derivatives of both these airvehicle a new capability, craft, the 20-passenger S-78-20 exported outside the UK and
broadening its range of uses, and the 29-passenger S-78-29.
Helping to bring down costs, and thus helping to improve its productivity.

At the same time, the demonstration flying with its
military uses for helicopters new model 222, and expects to
have also been expanding, with have the aircraft certificated for recently signed a Declaration of
the U.S. armed forces in particular tactically and strate-year. So far as other Bell development of several new
gically restructuring their models are concerned, demand types of helicopter for service

M.D.

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Anglo-French package.

Anglo

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# Space programmes switch emphasis

is to get the best value for every. space dollar spent, and more Probes and more unmanned satellites

of U.S. origin and 1,211 of mid-1981 respectively. probes totalied 40, of which the continues to grow. In addition years to come.

missions. The latter are in- does not mean that interplane of this kind would clearly cost by Eutelsat-it has already casting - that is, the transcreasingly becoming dominant, tary exploration has been dismany billions of dollars, take approved production of two mission from satellites straight as the pressures increase on missed as being of no value. Far years to complete, and would satellites governments to ensure practical, from it, for the current budgets become major international countries own postal and tele—is another area under study. usable returns from space. The of the U.S. National Aero—"space spectaculars" eclipsing communications organisations. Shipborne receiving stations are list of unmanned satellites nautics and Space Adminis even the manued Moon landings will be responsible for the con- already making possible the grows longer virtually daily— tration includes for in significance and long-term struction and operation of their direct communication via satellites may be a supported by the same prober in significance and long-term struction and operation of their direct communication via satellites. for telecommunications, weather several "deep space probes," in importance for mankind. "earth cluding the Pioneer spacecraft One of the most significant forecasting and earth clausing the riotest application of the current unmanned application mineral survey to the tinuation of the current unmanned application and tracking of Voyager mission in which two the long term is the European But with the OTS fish shoals), quite apart from spacecraft have been despatched Orbital Test Satellite (OTS), those less-publicised satellites already on "fly-by" missions to the second of which was towards the goal of a European now equipped with mobile allowance) being subscribed by launched for defence purposes both Jupiter and Saturn. As of successfully launched from regional communications sately that include the surveillance of July 1, this year, Voyager 1, Cape Canaveral last May, to lite system, based on the ECS munications via the Marisat each other's territory by both launched on September 5 last replace the first OTS which was the Soviet Union year, had flown close to 685m.

Orbital Test Satellite (OTS), the OTS is a major step supposed with mobile allowance) being subscribed by long allowance) being subscribed by long communications sately regional communications via the Marisat step of the current land of the second of which was regional communications via the Marisat system.

The Orbiter will have a large through the 1980s and beyond. The Orbiter will have a large through the 1980s and beyond. Stowed satellites for launching the control of the current land of the second of which was towards the goal of a European now equipped with mobile allowance) being subscribed by long communications via the Marisat system.

The Orbiter will have a large through the 1980s and beyond. Stowed satellites for launching through the 1980s and beyond. Stowed satellites for launching through the second provide communications with mobile allowance) being subscribed by missions in space. The Orbiter will have a large through the 1980s and beyond. Stowed satellites for launching through the second provide communications with mobile allowance) being subscribed by missions in space. The Orbiter will have a large through the second provide communications with mobile allowance) being subscribed by missions in space. The Orbiter will have a large than the Source of the Source of the Current through the second provide communications and the second provide communications through the second provide communications through the second prov the U.S. and the Soviet Union year, had flown close to 685m destroyed last September when in Europe is to win a share of Because of the current and even "hunter-killer" miles through space, and was destroyed last September when in Europe is to win a share of Because of the current was provided in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the current destroyed last September when in Europe is to win a share of Because of the Current destroyed last September when in Europe is to win a share of Because of the Current destroyed last September when in Europe is to win a share of Because of the Current destroyed last September when in Europe is to win a share of Because of the Current destroyed last September when in Europe is to win a share of Because of the Current destroyed last Se satellites designed to seek out due to approach Jupiter early shortly after lift-off. The OTS-2 market for regional satellite lites for a wide variety of technology and if necessary neutralise or next March, while Voyager 2, is intended as a majorated throughout the next March, while Voyager 2, is intended as a majorated throughout the next March, while Voyager 2, is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended as a majorated throughout the next March, while Voyager 2 is intended to the next March, while Voyager 2 is intended throughout the next March, while Voyager 2 is intended to the next March, while Voyager 2 is intended throughout the next March, while Voyager 2 is intended to the next March, while Voyager 2 is intended to the next March, while Voyager 2 is intended the next March, while Voyager 2 is inte operational telecommunications in the years ahead. The ability applications, considerable signi-As at December 31, 1977, the next July. Both satellites, having intended to pave the way for from the design, development the future. This in turn means and thus conveyed into orbit, into space, in that a large rocket the costs of space missions, total number of spacecraft of Photographed the face of the operational European Com- and manufacture of the space that increasing attention is whereas the Space Shuttle will launcher, called a Booster, will

respective earth stations.

is intended as a precursor of systems throughout the world nological

OVER THE past few years, craft in Lunar orbit and 34 in while recently the Soviet Union based telecommunications net In addition to telecommunications the completion of the Solar or planetary orbit. has been making extensive use works. In addition to carrying tions, weather forecasting, and most spectacular space mission. So far as manned spaceflight of its Salyut 6 space station.— a portion of existing intra-earth resources monitoring functivolving the landing of several two-man missions on the Moon and their safe return to Earth—the emphasis in space had reached 38,144. serious study in the U.S. accounting for plan for launching massive activities has changed.

The spectacular space mission of existing intra-earth resources monitoring functions, the role of the geometry independent of the space had reached 38,144. serious study in the U.S. is a with the U.S. accounting for plan for launching massive grammes between the members above the earth's surface) can of the European Broadcasting be extended into other areas. Union. The ECS system will be Studies now in progress in owned and managed by Eutel-Europe include the possibility has been making extensive use works. In addition to carrying tions, weather forecasting, and Now, with funds much tighter countries had achieved the same energy from the sun by means owned and managed by Eutel- Europe include the possibility than in the past, the objective number of flights at 31 each.

of vast "solar arrays" — blocks sat, an organisation set up by Green and the past, the European post and the past with the past wi of panels many miles square the European post and tele at high speeds, for example for transmission to Earth by communications administrabetween computer centres or microwave beams. Initial studies tions. The European Space databanks, or the transmission and more unmanned satellites
are being launched for a wide

The growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, variety of both scientific and deriving the greatest possible

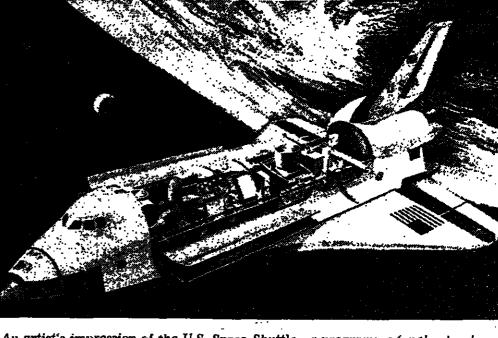
"applications technology" practical benefits from space 79—but any ultimate ventures orbit the satellites required pages. Direct satellites

The growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, such as documents or newsthe product of the growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, such as documents or newsthe product of the growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, such as documents or newsthe product of the growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, and the growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to of information to be printed, and the greatest possible are producted by Congress Agency itself is expected to - while individual into TV sets in people's homes lite with ships at sea (through the already functioning U.S. Marisat system and the forthcoming European Marots sys-But while the launching of tem). Today, more than 125 the OTS-2 is a major step ships and offshore facilities are

launched on August 20 last year, had flown over 709m miles and was due to close on Jupiter early was due to close on Jupiter early was due to close on Jupiter early by Both established being a percursor of the years ahead. The ability applications, considerable significance attaches to the methods and other satellities for the to offer complete "packages" ficance attaches to the methods and other satellites for the to offer complete "packages" ficance attaches to the methods and other satellites for the to offer complete "packages" ficance attaches to the methods and other satellites in particular, it is of satellite capability, ranging of launching such satellites in particular, it is of satellites having the satell various kinds (mostly satellites) Jupiter, are then due to swing munications Satellite (ECS) vehicles through to the pro- being devoted to the two tech- include a manned "Orbiter" inject into orbit a specially particularly the cost of launch-launched from Earth had on in space for an encounter system in which four operations of ground stations and pigues now under development religious that itself will religious and orbital had on orbital and orbital and orbital ing the increasing numbers of various kinds (mostly satellites) on in space for an encounter launched from Earth had on in space for an encounter system, in which four opera-vision of ground stations and niques now under development vehicle that itself will go into that in itself will be a manned to optimise on the technology already acquired the technology already acquired to the technology a of U.S. origin and 1,211 of mid-1981 respectively.

in the 1980s. A feature of the gears them into individual Ariane rocket launcher system, carrier. Soviet origin. Included in this But unmanned interplanetary OTS-2, however, is that it is in countries own local telephone and the U.S. National Aerototal were no less than 69 Lunar "deep space" probes will con- effect a "bus" type of satellite and TV networks, will yield nautics and Space AdministraThe first full flight test of time. During those periods the ment in space research. While missions (36 U.S. and 33 Soviet time to be the exceptions in —meaning that it involves a substantial business in the years time. During those periods the ment in space research. While the first fully operational Ariane is set for mid-1979, with small crew will be able to underthe U.S. has said that the Space

orbit, but there were still 16 own Skylab for further ase, complement the existing land- attack on world markets. Europe's contribution to the for the French Earth observa- Orbiter itself, its mission com-



An artist's impression of the U.S. Space Shuttle—a programme for the development of a re-usable "Space Transport System" now under way in the U.S. The manned Orbiter vehicle shown here, would be boosted into orbit carrying a crew which would live and work in space for several days at a time. In this picture, the Orbiter is shown carrying the Spacelab manned orbital workshop in its curvo bay Europe's contribution to the Space Shuttle programme.

UK has only a small stake operational Ariane, a reserve crew, and then down to a (about 2.47 per cent) is the until it is assigned to a specific specially constructed runway at Ariane, the bulk of the cash ariane, the bulk of the cash programme, will be financed by Cape Kennedy. Florida. where (and the work) involved in its ESA member states. Thus it will land rather like an ordinary of the cash programme, will be financed by the cash where the cash programme, will be financed by the cash programme, with the cash programme, will be financed by the cash programme, will be financed by the cash programme, with th development (Frs 3,400m includand Switzerland. The Ariane is

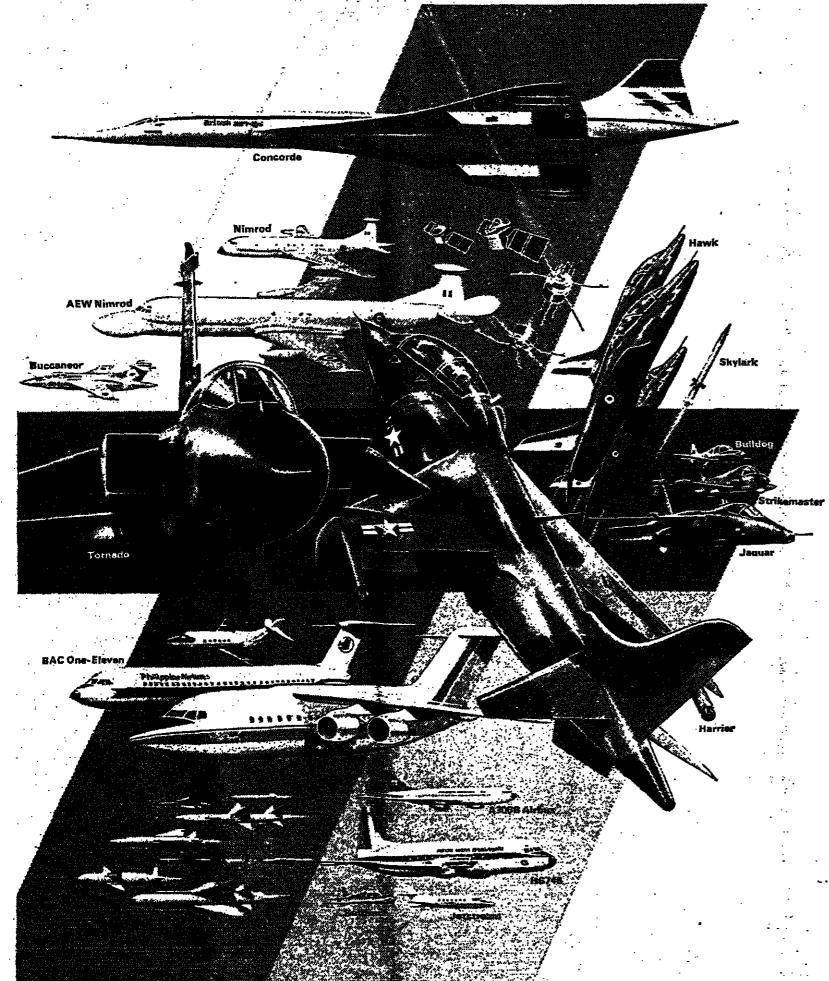
Union), mostly unmanned but future space developments, as basic design of "space vehicle" ahead. Europe is determined Space Transport System. the first fully operational Ariane take a wide variety of missions. Shuttle will be available to of manned Lucar landing space "near frontiers" of space for the ing a wide variety of payloads leave it to be won by the U.S. has said that the Space to the first fully operational Ariane take a wide variety of missions. Shuttle will be available to of manned Lucar landing space "near frontiers" of space for the ing a wide variety of payloads leave it to be won by the U.S. has said that the Space to win a share of this and not. The object of Ariane is to be first fully operational Ariane take a wide variety of missions. Shuttle will be available to other countries to launch their satellites. Deep-space planetary long-term benefit of mankind on different missions for many the OTS-2 throughout the rest of this centhe work done on the OTS-2 throughout the rest of this cen- five operational Arianes. Three in orbit, and conducting a wide be pitched too high, or even that probes totalled 40, of which the continues to grow. In audition years to come.

U.S. had logged 13 and the to the development of specific The future European Com- and other programmes, as well tury. It represents one of of these are intended for and variety of research experiments the U.S. might effectively come. i.S. had logged 13 and the to the development of specific. The future European Com- and other programmes, as well tury. It represents one of the follow- and practical activities in near to dominate Western world of the total spacecraft uses, renewed interest is being programme itself is scheduled programmes in their individual programmes this decade. The ing ESA programmes: the Earth orbit. The Booster, space-launch technology. It is Of the total spacecraft uses, renewed interest is being programme itself is scheduled programmes in their individual programmes inis decade. The ring responsibility of the number still in focused upon manned near to start operating in 1981. It countries, have already shown a decision to go ahead with Ariane scientific satellite Exostat (in having injected the Orbiter into for this reason primarily that amounted to 936, of which 388 laboratories." The U.S., for the Conference Européenne des the telecommunications satellite time that it was decided to time satellite (mid-1981), and back to Earth, splashing down develop their own alternative were of U.S. origin and 480 were example, has been studying the Administrations des Postes et field, which they must now build the Spacelab, the manned the first ECS satellite (end- into the sea for recovery and successful another is intended requirements. Soviet craft. Most were in Earth possibility of reactivating its Telecommunications (CEPT) to translate into a commercial orbital laboratory which will be 1981). One launcher is intended refutishing for future use. The

U.S. Space Shuttle, and the tion station, SPOT, and will be pleted, will be flown back into Marots maritime satellite. The paid for by France, and the fifth the Earth's atmosphere by its Ariane has already begun to nary large aircraft, and then collect customers and it is itself be refurbished for further

The U.S. Space Shuttle represpacecraft, capable of remaining over more than a decade of in space for long periods of

stowed satellites for launching while on some occasions it will carry the European Spacelab, a manned "orbital workshop" in



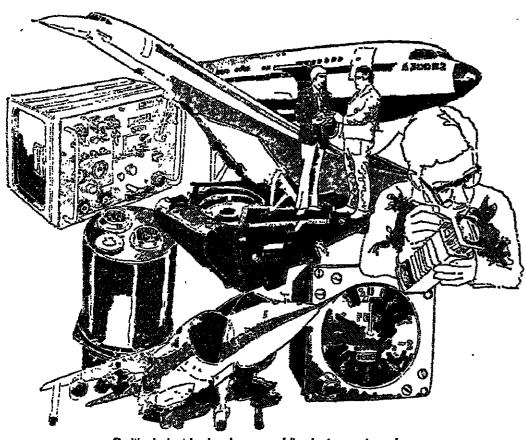
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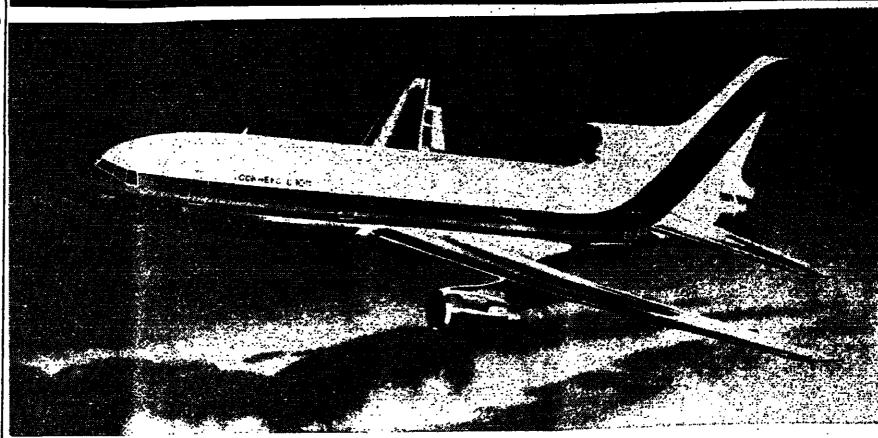
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## AEROSPACE VIII



The Lockheed Dash 400 version of the Tri-Star, Lockheed's contribution to the fight for the growing world market for 200-plus seater airliners of the future.

# The revolution in air transport

be wrong to argue that the scheduled airline industry is Popular the U.S., have wanted to see.

THE WORLD'S scheduled air-the pacemaker route for much towards cheaper fares has been reactions of governments to plans have frequently been lines over the past few months of what happens throughout the too rapid, and that rather than those events-in particular, the vetoed by individual airlines or have been passing through one rest of the world airline in generating new traffic the cheap reactions of the U.S. Govern by governments - and again of the most traumatic periods in dustry, came last autumn, when rates may have been drawing ment, which increasingly over especially the U.S. Government their history, in which virtually after a long battle. Laker Air. travellers away from higher recent years had shown itself —with the entire shape and even the ways, headed by the ebullient classes of fare, such as economy hostile to the basic tenets of the mental fares policies being concept of scheduled air trans. Sir Freddie Laker, was finally class and even perhaps IATA, and to the principle of negotiated and introduced port as it has developed over the able to start its cheap-fare Sky. Advanced Purchase Excursion namy fares in major "tarinf coninstead. It could, if adopted, past thirty years has been under-train, no-frills, walk-on, walk-off rates. Most of the scheduled air ferences."

This resolution are also been under-train to future some airtrains. This resolution are also been under-train for the scheduled air farences." going change. This revolution, service between London and lines on the North Atlantic have As a result of Mr. Hammar lines may revert to arranging for it is little short of that, is New York. In this context, it argued that they would like to skipid's warning, the IAIA set their own fares policies among by no means over, and it seems is worth remembering that for want at least until this summer up a small necessary themselves, instead of having likely that the scheduled car- all its current vigour in prosesson is over before maily force to analyse the problem governments do it for them. riers will have to face an ex-moting chapter fares, the U.S. cheen force an appropriate the control of uncertainty. tended period of uncertainty. Government for years deliber cheap fares experiment of turn resulted in the special The revolution has been skytrain, and they were only sparked off by the intensifying Governmental pressures in many finally approved under the influ-

popular with the travelling public beginning of the summer the same equipment charging lic. But while Laker itself claims may well have to be toned down include, for example, such the same fares and offering the

even a year ago.

#### Command

measure due to the efforts of which, if IATA were to collapse, reforms in favour of fares-fixing Mr. Kahn, who has taken firm governments would be hard put and the quality of service will command of the CAB and has to find alternatives. consumer rather more than the complex in its operation proposed changes, and is due to airlines. The wide-ranging Broadly, it will give to those consider them at its next meet-nature of the cheap fares that airlines who are members of ing in mid-September. It is his efforts have produced on the Association the right to probable, therefore, that by the U.S. domestic air services over decide whether or not they wish time the IATA airlines go to the past summer have resulted to participate in the complex, their next full annual meeting in peak loads-but this time, time-consuming business of fix- in November in Geneva, they despite earlier gloomy forecasts ing fares and cargo rates will have a clearer indication of by the airline, they have been through what are known as how these reforms are going to matched with good profits. This "traffic conferences." Hitherto, be introduced. It must also be would appear to show that, so the Association's rules have borne in mind that the governfar as internal U.S. air services required that all its members ments of all the airlines confar as internal U.S. air services are concerned, the move to cheap fares in the U.S. has been a success, and that they have generated sufficient new traffic to enable the airlines to improve their load factors and make money Unce again, however, are concerned, the model of a given ments, who are not in favour of route—say the North Atlantic the changes as proposed in between the UK and the U.S.— Montreal. It is possible that by have been vindicated, but also tries without recourse to The impact of cheap fares on they will be more widely accept- the able outside the U.S.

marskjold, the director-general proposals the bigger airlines in the boardrooms of the world's of the Association, recognised make. the signs that were emerging. In effect, this seems to be ence halls of the IATA, and the and warned the delegates that only giving recognition to what dust that it has raised will take they would have to move has become a de facto situation, some quickly if they were not to be especially on the North Atlantic, overtaken by events and by the where previous IATA fares

general meeting of the Associa- Kules

Governmental pressures in many of the major air transport generating ageas of the world, but most notably in Western Europe and the U.S., in favour of much cheaper fares. While it would be worded with enthusiastic support from the cheaper fares. While it would be worded with enthusiastic support from the past summer that the cheap rares have in ract generated traffic without diluiting approved under the influ Governmental meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of simplifying fares-making policies, the montreal meeting is due to At that meeting, the delegates of the subject to appoint delegates of the major appointed consumerist chairman post-mortem on the past summer the most lar-reacting changes of the world. It experience has shown uperation since it was first that meeting the first appointed to a shown of the major appointed consumerist chairman post-mortem on the past summer the most lar-reacting changes of the world with the most lar-reacting changes of the major appointed consumerist chairman post-mortem on the past summer the most lar-reacting changes of the world with the most lar-reacting changes of the most l that the cheap rares have in ract established in 1944. Basically, vice to passengers aboard generated traffic without dilut- the programme of reforms will flights, Hitherto, the IATA rules ing revenues and reducing or crease two new ievers or mem. have laid down the precise scheduled airline industry is not, and has not, been in favour of cheaper fares—it has pioneered a number of major developments in this area over the past thirty years—it is true that it has always preferred to move cautiously, and to introduce those cheaper fares at a pace of its own choosing, with the result that it has sometimes

Popular

Ing revenues and reducing or cheate two new levels or members not slikely to be clear for some consolidation or even extension of such rates through the comaining winter and into next spring and summer. If, however, as move to meet this new type of competition, with the introduce those cheaper fares at a pace of its own choosing, with the result that it has sometimes

Ing revenues and reducing or clear two new levels or members not slikely to be clear for some consolidation or even extension at the many legal, mancial, the many legal, mancial, the many legal, mancial, account for up to some airlines on the route should move cautiously, and to introduce those cheaper fares at a pace of its own choosing, with the result that it has sometimes

Ing revenues and reducing or clear for some create two new levels or members in the way is likely to be clear for some consolidation or even extension at the many legal, mancial, the many legal, mancia the result that it has sometimes Budget Plan larges on the same had been upon to the fully in these affairs, for they between the top of one seat and the result that be route. Subsequently, there can arribes are believed to have the routed to the route that behind it. This has meant been slower to respond to the be no doubt that these cheap been badly hit), the outburst of are crucial to the smooth function most major air routes, development of market trends fares have proved immensely consumarist terrour that marked tunning of the world scheduled that on most major air routes, than some governments, such as popular with the travelling pubthe beginning of the summer air transport system. They the same equipment charging

cheaper fares on the North cargo, air traine control technonly areas left in which they atlantic, there has also been a niques and other safety matters, have been able to compete has move towards cut-price air legal attairs and most significantly in the U.S., cauthy of all, participation in the one of "personal service." Now, and this past summer virtually "clearing nouse" through it is hoped that the airlines will and this past summer virtually clearing all inter-airline it is noped that the airlines will every airline flying on domestic which virtually all inter-airline be able to compete more routes there has been carrying nnancial transactions are pro-courtes there has been carrying nnancial transactions are pro-directly on a more effective record traffic, with load factors cessed, amounting to several basis, with the passengers able rising to heights undreamt of thousand minion collars' worth to shop around for the best or business every year. These prices and quality of service are the "bread and butter," dayto-day activities of the Associ-This has also been in large whole airline business and for be resolved is how far all these

shown that he intends to use it. The second planned new Montreal meeting, has been as an instrument to benefit the category of membership is more working out the details of the

machinery of the IATA traffic with both an increasing rate of Coupled with this continuing conferences. This, it is felt, traffic growth if world economic move towards cheaper fares could make it possible for the conditions continue to improve, have been the measures to get major airlines on any route to and the internal changes that rid of many of the rigid rules respond more quickly to the these factors, together with and regulations which have rapidly changing circumstances more radical characterised the scheduled air of the 'market-place, without attitudes to civil aviation, have lines' body, the International having to run the gauntlet forced upon the airline indus-Air Transport Association, for of fares conferences at which try, will all ensure that the many years. Only last Novem. small airlines with no direct industry is being set upon a new ber, at the IATA annual meet- interest in a given route might course. The wind of change has ing in Madrid, Mr. Knut Ham- otherwise be able to block any been blowing throughout 1978

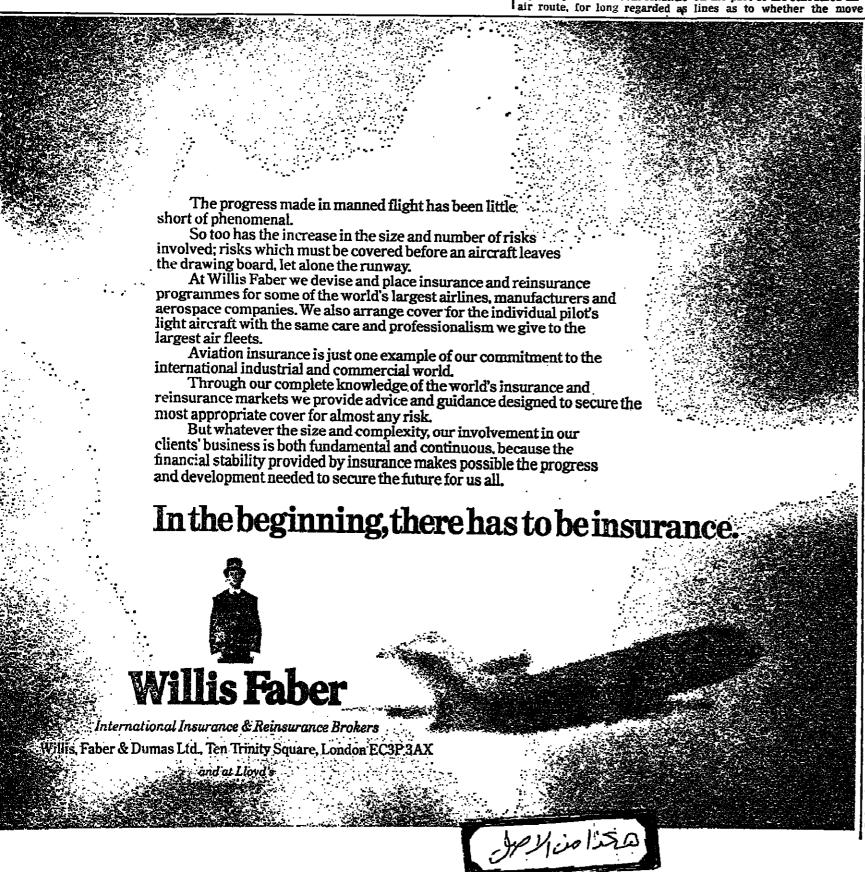
Apart from the possibility

The breakthrough in the in- that it is making profits on Sky- in favour of a more rational troduction of cheap fares, train, there is still some reserve approach.

Iii. But while Laker itself claims may well have to be toned down include, for example, such the same fares and offering the same quality of meals, with the control techniques and baggage handling drinks and in-flight entertainment at the same prices. The only areas left in which they

get. The powerful IATA Executive Committee, since the

previous cumbersome many world air routes, coupled governmental major airlines, and the confer-



#### AEROSPACE IX



# Events overtake UK airports strategy

THE GOVERNMENT strategy met by one of three options. At Heathrow the rising that delays to the expansion The UK Government, after for meeting the need for addi- There could be a major demand for air travel has lifted programme, including particulated the programme.

could be met by expanding systems should be rationalised terminals. existing airports. There would into four categories.

In the short term, up to 1990, tier by providing short-haul capacity at existing airports. the Government strategy en international services, a range the Government strategy en international services and domestic At the urging of the Airports visaged four ways of providing of charter services and domestic Authority, both the Advisory the extra capacity in the South services linked with the Gate-Committee on Airports Policy

local lobby groups. The White flights. Paper said there should be no At the bottom of the fifth terminal at Heathrow.

#### **Proposals**

the BAA to bring forward pro-traffic, posals for a second terminal at raise capacity from 16m to 25m of all of Britain's airports. But passengers a year. There should for the air traveller, the airlines be no second runway there.

could be provided by a limited is that of providing extra capadevelopment at Stansted Air city to match the forecast port, Essex, boosting the air- growth in air traffic to the end port's capacity from 1m to 4m of the century.

passengers a year. The BAA At Heathrow Airport alone. was urged to bring forward growth in passenger traffic so these limited plans for develop- far this year has outstripped March 1978 prices), of developing the airport.

mended that Luton Airport, Airports Authority said it is which is owned and operated by now running at an annual Scottish airports run by the the local authority, should have growth rate of 8 per cent, a rate BAA is now complete. a maximum passenger handling of increase likely to continue at capability of 5m passengers a least for the foreseeable future, the BAA in its five year plan

suggested that the uncertainties passing phenomenon. at the higher end of this range The Authority responded to Over.8m could be the top figure were such that the proposals the White Paper by saying that for the Scottish airports.

would be sufficient to accommothe Government policy carried Cargo traffic is forecast to date the more likely air traffic a strong risk that capacity would grow at South East airports throughout the 1980s.

the Government accepted that of the longer term options in forecast over the period is from there was a likely need for addit the White Paper would be 39.000 tonnes to 48.000 tonnes. tional capacity. This could be needed before 1990.

way airports.

Authority's proposals for a structure, there would be Local East airports, have been set up fourth terminal at Heathrow Airports, meeting the traffic Airport, London to raise capaneeds of scheduled passenger handling problems which are city by 8m to 38m passengers a services operated by aircraft regarded as inevitable in the year should be examined at a with less than 25 seats. They Public Inquiry. This is now would also handle general sitting and sifting evidence from aviation, domestic the BAA, environmentalists and services and some charter Discuss

> side the demands of most air the Airports Authority, local travellers, would be the general authorities, trades unions, air aviation airports. These would lines, environmental groups and be concerned with business, other interested parties, the two

These organisational changes Catwick Airport, Surrey, to are certain to affect the running developments, so that time-Third, extra capacity to 1990 the South East, the major issue

The White Paper recom- forecast last year. The British of this is in the South East

These developments, if car-Government appears to have the UK economy. Terminal ried out in a plunned and pro- conservative views on the pros- passengers at the South East gressive way would give the pects for air traffic growth. The airports are forecast to grow four London airports a total British Airports Authority, from \$0.6m in 1977/78 to 44.1m capacity of about 72m passen which owns and administers in 1982/83. At the Scottish airgers a year. This compared seven major airports, including ports the growth is expected to with a total forecast demand in Heathrow and Gatwick, is con- be from 4m in 1977/78 to 5.4m 1990 of between 66m and 89m vinced the recent acceleration in 1982/83. But demand at the basengers. The Government in the rate of growth is not a South East airports could range

growth in the London area not be adequate to meet demand from 575,000 tonnes in 1977/76 in the late 1980s, and that there to 914,000 tonnes in 1982/S In the longer term, after 1990, was a strong likelihood that one At the Scottish airports the

The last official statement on structed.

airport plans, published by the Outside the London and Government in its White Paper south-east area there was now an Airports Policy in February, excess capacity. The Government have coped with the rise in the South ment proposed that services traffic without straining runway and extra capacity in the South ment proposed that services traffic without straining runway the BAA would also like to see more scheduled flights using the airport.

Lynton McLain

With the possibility of up to be no need for—or possibility. There should be Gateway 89m passengers each year at of—a new airport until then. International Airports provid. South-East airports by the late The plans were based on ing a wide range and frequency 1980s, and with new airports short and long term estimates of international services, includ-needing a 12-year "lead time" of the likely demand from air ing intercontinental and to develop, the BAA is anxious travellers and of the capacity domestic services. Regional air that there should be a minimum which should be made available, ports should operate as a second of delay with the expansion of

primary and the Study Group on Southurgently solutions to the traffic

By bringing together represtructure, and essentially out sentatives of the Government Second, the Paper called for recreational and flying training bodies should be able to discuss in detail the problems involved prospective new airport

consuming delays such as Public Planning Inquiries can perhaps be either avoided or completed unnecessary hold-ups in providing the new terminal capacity that is likely to be needed in the mid to late 1980s.

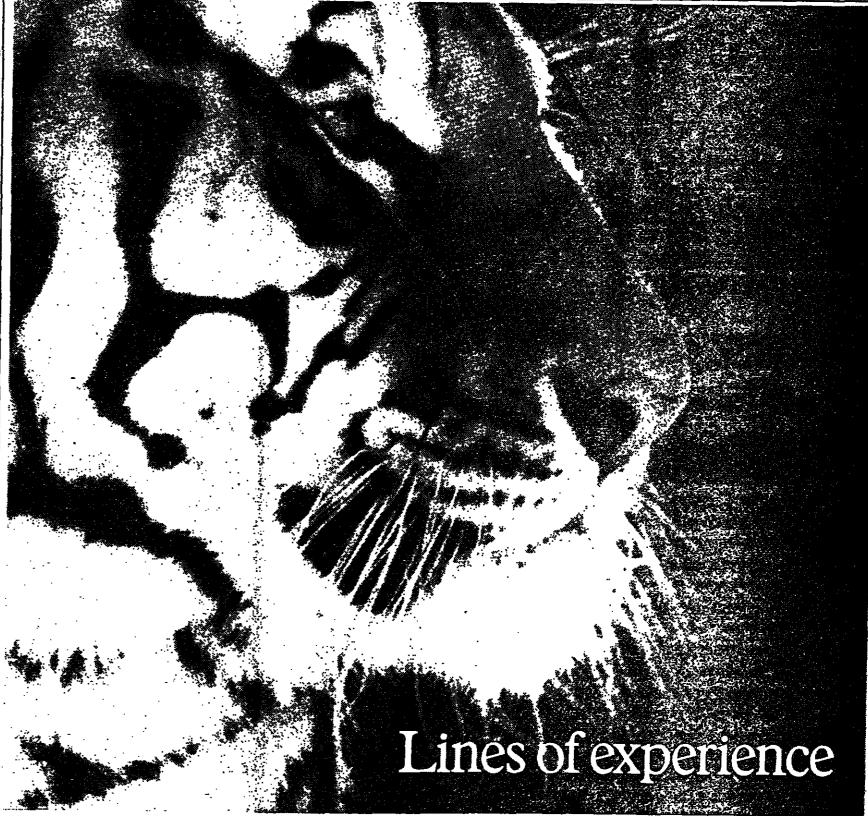
In the meantime, BAA has £243m five-year programme (at the 3 to 5 per cent increase ment at its seven airports. Most Major redevelopment at the

The traffic forecasts used by In this scenario only the reflect the gradual recovery of from 39.7m to 48m in 1982/83

The Authority has warned

for meeting the need for august 1 and 1 an





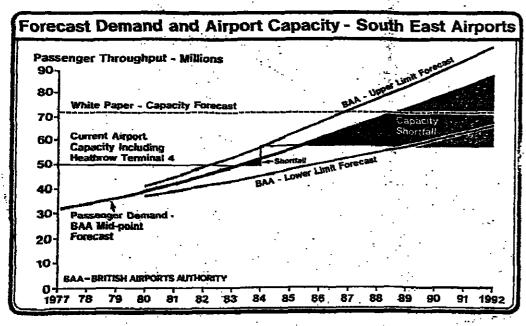
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# Advances in airborne avionics

for their wares, and in many the-minute features, including some models provide additional instances they secure substantial colour radar screen indicators facilities including vertical as business either directly because even for light aircraft. A combusiness either directly because even for light aircraft aircraft even for light aircraft. A combusiness either directly because even for light aircraft eve make during the show. Conse- including navigation displays. ment. quently, more than in any other area of aerospace, the avionics and equipment companies use the Faraborough (and Paris) air shows as launching platforms for new products, and this year's Farnborough display is no excep-tion, with a vast number of new

one-third of the value of a complex modern aircraft (and even more in the case of some of the more advanced military aircraft), this side of the world's aerospace industry has expanded rapidly in recent years, and is becoming of increasing importance as the emphasis grows in aviation on such thirds as automatic landing equipment, new navigational aids, collision-avoidance and storm-warning systems, and improved complex modern aircraft to the air air, he or she may at leisure troubles of the world. There can glider, according to the British rie one of the 517 general be no doubt that many glider denthusiasts feel a sense of pleased to supply details.

It requires about 50 launches for the student pliot to gain when the tow hook falls back to for the student pliot to gain the experience needed to go groups. There are now approximately 21,000 to 22,000 holders are now approximately 21,000 to 22,000 holders.

Powered private flight is the most expensive of the aerial options open to the would-be leisure flyer. It is also the most avoidance and storm-warning systems, and improved complex to the consuming a licence but it can give a far air, he or she may at leisure troubles of the world. There can glider, according to the British in odoubt that many glider pleased to supply details.

It requires about 50 launches for the student pliot to gain the experience needed to go groups. There are now approximate are now approximately 21,000 to 22,000 holders.

But that line, falling away solve the air air, he or she may at leisure troubles of the world. There can glider, according to the British ploased to supply details.

It requires about 50 launches for the student pliot to gain the experience needed to go groups. There are now approximately 21,000 to 22,000 holders.

But that line, falling away solve expensive of man-controlled power, together in ownership synders of the civil Aviation Authority of the Civil Aviation Authority of the Civil Aviation Authority.

The consumation of the student pleased to supply details.

It systems, and improved com-

and equipment manufacturers would probably disagree.

electronic aids have been so weight and compact design are electronic and the potential benefits. so cost-effective that airframe governing choice of new equip-manufacturers have been able to update, and almost redesign from the inside, well-established equipment has done a great launched this summer at less than the first term of nearby storms and thunder the penalty of from the inside, well-established equipment has done a great launched this summer at less ministure television tubes can aircraft. This has extended the aircraft. This has extended the deal to increase the amount of than £3,000, is one of the cheap-life of the aircraft and led to discretely and the second are series of indicates the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine a variety of indicates carry the first are due to the combine at aircraft. This has extended the deal to increase the amount of than £3,000, is one of the cheap life of the aircraft and led to disposable space in small, fixedest est conventional radar sets yet the development of derivatives, wing aircraft and helicopters offered.

This has opened the way for appearance but housing radical appearance but housing radical arcraft to be almost essential for all types of a range of cockpit and engine greatest users in the smallest arcraft to be almost essential for all types of a range of cockpit and engine greatest users in the smallest arcraft to be almost essential for all types of a range of cockpit and engine greatest users in the smallest arcraft to be almost essential for all types of a range of cockpit and engine greatest users in the combine a variety of indicator functions, including weather.

Executive jets are almost essential for all types of a range of cockpit and engine greatest users in the combine and the combine and the combine and the combine and the combine at the combine at

components, systems and anciladvances in recent years have lary equipment in particular find taken place in the field of radar. It is a demand and anciladvances in recent years have lary equipment in particular find taken place in the field of radar. Britain.

Range and bearing information is displays like the forth coming Farnborough display very simple to expensive and next week a valuable show-case complex items offering up-to-for their wares, and in many the-minute features, including the models provide additional and the models and the models provide additional and the models an for their wares, and in many the-minute features, including Some models provide additional craft developments of airliner growing range of complex fuel instruments their wares, and in many the-minute features, including Some models provide additional craft developments of airliner growing range of complex fuel features their wares, and in many the-minute features, including Some models provide additional craft developments of airliner growing range of complex fuel features.

space industry over the past to over £28m and radio, naviga- the new lightweight weather and business aircraft use for system which is already being space mustry over the past to over agon and radar aids nearly radar system developed by RCA. less than £2,000 and some manufilled to the larger business decade has been the rapid tion and radar aids nearly radar system developed by RCA. less than £2,000 and some manufilled to the larger business ment sector, with particular In the general aviation sector, electronics for the company's will fall further in the years developed as a joint venture. ment sector, with particular in the general aviation sector, electronics for the company's with fair retrief in the years developed as a point venture emphasis on avionics (aviation embracing all types of aircraft Weather-Scott I system is ahead as demand rises and as with the Department of Indusfrom business jets to light tailor-made to fit inside the design and production tech- try and is now being tested on

ONE OF the most significant achieved record exports, with Miniaturisation of recent Precise position-fixing equip istics common to airther installed overlapments in the world aero-instrument exports amounting equipment is displayed well in ment can be bought for light lations. Sperry has a similar developments in the world aero-instrument exports amounting equipment is displayed well in ment can be bought for light lations.

essentially similar in external appearance but housing radical innovations in the avionics equipment.

This has opened the way for appearance but housing radical innovations in the avionics equipment.

The manufacturers of avionics, avionics, avionics, Some of the most dramatic components, systems and ancillary equipment in particular find major air displays like the forth-

Additional flight test work will be done on the British

# Flying as a sport

licence but it can give a far Thrill greater degree of freedom

facilities for the intending type and the club. private pilot. Britain boasts Pilots Association has almost of enthusiasts for the powered for the second successive time, flying.

90 clubs in Britain in corporate glider which uses a small piston during the second successive time, flying. 90 clubs in Britain in corporate glider, which uses a small piston during contests held at The other type of gliding, membership and all offer full engine for brief bursts of Chateauroux in France. Over without frills or a closed cock-powered flight to gain access to 80 gliders took part racks. or part-time training facilities powered flight to gain access to 80 gliders took part, racing pit, is hang-gliding. The British for those wishing to practise rising thermals or even to take, around a 500 to 500 km givenity

Authority there are minimum single-engined aircraft. standards for courses leading to the private licence. There advantages over powered flight, noon's recreation above the ciation said the total was rising are two ways to get this, the The British Gliding Association, clouds. Over 100 clubs are only slowly. final choice depending on time which controls the sport in dotted around carefully chosen available and the degree of Britain, is careful not to over-locations in Britain. At least application of the individual

The first and most forma scheme involves training at an approved school with a minimum of 35 hours of flying to be completed within six months. On top of this students have to take a written examinaion on technical subjects including navigation and a general flying test.

This scheme of training is the most appropriate for students with all the time in the world for a concentrated hurst of training. For those who would rather take their flying training more leisurely, the CAA has authorised a 40-hour standard course which can be completed over any length of time. Intending solo pilots must be over 17 years of age, hold a valid medical certificate and students must complete a minimum of 10 hours solo.

The one constraint is that the student has to complete the mandatory three written examinations within 12 weeks of each other and within six months of completing the required 40 hours of flying training.

Interest in the sport, or the obsession as it can become to some enthusiasts, shows no signs of tailing off, according to the Aircraft Owners and Pilots Association. This is despite the estimated cost of between £800 and £1,000 for the competent student to acquire his licence on a single combustion-powered internal aircraft in the group A weight limit of up to 12,500 lbs.

The majority of British flying lubs cater for the student who wants to take his time over obtaining his licence. For the typical student, the exercise is hobby and time is not of the essence, so long as the traince pilot enjoys the exacting disciplines required in a fully competent pilot.

With equipment and systems THERE CAN be no doubt about When the student has com- emphasise the joys of silent 60 per cent of them offer weekof all kinds already effectively the popularity of leisure flying pleted his tasks and the flights of fancy in the gently long holiday courses — the
representing up to as much as when as many as 50,000 enthus pleasures of examinations in the swirling clouds above the easiest way to flare to fly a
pleasures of examinations in the swirling clouds above the easiest way to flare to fly a
one-third of the value of a comsiasts each year take to the air air, he or she may at leisure troubles of the world. There can glider, according to the
pleasures of examinations in the swirling clouds above the easiest way to fly a
one-third of the value of a comsiasts each year take to the air air, he or she may at leisure troubles of the world. There can glider, according to the
plex modern aircraft (and even for two Many more set pleasure) bire one of the 517 general be no doubt that many glider Gliding Association.

of this year, the aviones exponents of unpowered flight a trial flight in a small, single-based on this search for rising cheapest engined aircraft, not to taste warm air. No longer are glider around £6,500. Nevertheless, whatever the charms of ballooning, hand charms of ballooning, hand gliding or gliding, powered flight has the indisputable free dom of enabling the participant to go wherever he wishes, as long as there is an airfield, however rudimentary.

There is no shortage of facilities for the intending Nevertheless, whatever the the stomach-turning thrill of pilots content to release their. These costs, to which must be

because there is a growing band the world gliding championship space cleared for this type of

Under arrangements laid arise during towed launches. For the amateur, or the aspir- there are now 5,000 adherents down by the Civil Aviation either by winch or by small ing world champion, gliding is to the sport in Britain. This likely to be a good deal cheaper may represent a plateau of

Gliding has some attractive than powered flight for an after- likely membership, as the asso-

For those interested in taking There are other challenges Mr. Lee last month.

One branch of leisure flying with a long history of glider is now so popular that clubs which is almost unaffected by design, manufacture and suc have waiting lists, a result also between 150 and 200 flying the rise in oil prices is gliding, cess in the sport. Last month Mr of the shortage of land suitable the rise in oil prices is gliding, cess in the sport. Last month Mr of the shortage of land suitable clubs or groups of enthusiasts. "Almost" is the qualifying word George Lee, an RAF pilot, won for glider airfields under airfields under

for those wishing to practise rising thermals or even to take around a 500 to 600 km circuit Hang-Gliding Association, based and study for the pilot's licence.

Other ancillary fuel costs above the French countryside. in Somerset, estimates that

Lynton McLain



The Tornado multi-role combat aircraft, which will form the main strength of the RAF in the 1980s.

# Operational boost for the RAF

THE RAF is now preparing is an all-weather, swinging-wing for the ADV in 1978-79 prices. Victor tankers. Hawk trainers a major step forward, with the supersonic aircraft produced by The overall production pro- are also now moving into ser-

This aircraft, coming in such numbers, represents the biggest The aircraft is powered by two this. It seems likely, therefore, 1980s. The Sea King helicopter boost the RAF has had for new-technology RB-199 engines, that the eventual overall cost is coming into service with the many years, and it is likely not produced by Turbo-Union, a of the Tornado to the three RAF for search and rescue only substantially to improve its joint company established by countries will be in excess of duties. Capabilities militarily, but also Rolls-Royce, Motoren-und-F7.5bn, and it is not surprising to far as the air defence of that the RAF is treating the this country in itself is conhas suffered in recent years both Germany and Fiat of Italy. Of aircraft with immense respect. The manufacturing pronage strategic bombers by the

qualified personnel, but also discounted. considerable difficulties in recruiting adequate numbers of Basic men of the right railing to fill men of the right ralibre to fill the gaps. Recent pay awards by the Government, although will be of the basic version (the going some way towards type that will be delivered from meeting some of the complaints next year) that will be complaints.

The Tornado in West Germany, and some 10,000 in Italy — a total of around 80,000 in the improvement of the UK's own air defences. The Air Defence Variant of the three countries and involving more than 500 companies.

Air Staff, commented earlier identify and destroy enemy existing Nimrods in KAF ser matched by continued or per-this summer: "We are still short aircraft at distant ranges. The vice are being progressively haps even increasing financial of numbers in both aircraft and ADV will arrive later in service modified and updated to im-missiles. The 3 per cent growth than the basic IDS version, prove their submarine detection point that it is not necessarily in the Defence Budget will give being delivered early in the and destruction capabilities. in business to perpetuate us the welcome opportunity to 1980s. The prototype ADVs are In addition, a long-standing manned aeroplanes as such and push more resources in this now being built, and will fly RAF need for a medium-lift that there are many other

naissance aircraft and of Defence for the aircraft is a modified for tanker duties by might prove technologically differentially also the Phantom unit production price of \$7.9m British Aerospace. These will ficult.

Combat aircraft. The Tornado for the basic version and \$9.4m supplement the present force of Alt the same time, consider the present force of Alt the same time.

Avionics

delivery in early 1980 of the an international company gramme of 809 aircraft is not vice. In the transport field, the first of what will eventually called Panavia, comprising likely to be costing the three Hercules fleet of tactical and become a force of 385 Tornado British Aerospace, Messer countries much less than about strategic transports are being multi-role combat aircraft. Schmitt-Bolkow-Blohm of West £7bn, while research and reconditioned to enable them to This aircraft, coming in such Germany and Aeritalia of Italy, development has to be added to serve at least until the late numbers represents the higgest. The aircraft is powered by two this It some likely therefore 1990. The See Ving believester.

in the service, have certainly to the three participant new aircraft joining the RAF in borne Early Warning Nimrods, not gone far enough, and both countries in the programme, the near future. A fleet of four- the Sky-Flash air-to-air missile the drain on technicians and called the Interdicter Strike engined Nimrod anti-submarine and the improvements in the recruiting difficulties seem version (or IDS) and intended warfare aircraft is now being tanker force, will do much to likely to persist for some time primarily for battlefield inter- modified by British Aerospace help improve this situation, but likely to persist for some time primarily for battlefield interto come unless further signifidiction: close air support;
cant pay rises are permitted counter air-strike; naval strike;
factory, to undertake the Airborne Early Warning role—
it is for these reasons that sance. The remaining 165
the Service chiefs are putting aircraft for the RAF will be of
considerable emphasis on the a different model, the Air
introduction of the Tornado, for Defence Variant (ADV), which
in it they can see the opporwill be intended for interception in the U.S. Boeing Airboth quantitatively and for which purposes it will be
borne Warning and Comtrol

Enhance

The improve this situation, but
in addition, measures which are
being taken at home include increased numbers of surface-tothe detection at an early stage
of enemy aircraft approaching
the NATO airspace far out over
the NATO airspace far out over
the NATO airspace far out over
the North Atlantic. The AEW
Nimrod is the British equivatent of the U.S. Boeing Airboth quantitatively and for which purposes it will be
borne Warning and Comtrol

Enhance

Beyond this the RAF is lookthe build-up of Warsaw Pact air-intercept radar, and with being used both by the U.S. Beyond this, the RAF is look-conventional forces, including Sky Flash and Sidewinder air. Air Force and is planned for ing at a wide variety of new factical combat aircraft, is to-air missiles. The ADV is other NATO nations, and is indevelopments to enhance its gathering momentum, designed to loiter far out over tended to be compatible with combat capabilities in the As Air Chief Marshal Sir the North Sea and Atlantic the Nimrod. For the anti-future, when increasingly com-Michael Beetham, Chief of the approaches to be able to detect, Submarine warfare role, the plex technology is bound to be Air Staff, commented earlier identify and destroy enemy existing Nimrods in RAF ser-matched by continued or per-

replace a number of ageing sole to land and take to at it was announced that the counter of measures, aircraft in the service, including slow speeds on dispersed sites RAF's long-range strategic and better techniques of target principally the Canberra with its wings swept forward. tanker force for refuelling comidentification and acquisition reconnaissance aircraft, the laevitably, an aeroplane of such bat aircraft far from base was and improved weapons accu-buccaneer strike aircraft, the high performance will be expen-being arengthened with an in-racy. The possibility of such Lightning strike and air-sive. Detailed costs are not fusion of up to nine VC-10 air-revolutionary techniques as superiority aircraft, the Vulcan available, but the most recent craft, bought from airlines and "in-flight re-arming" is not interdicter-strike and recon- figure given by the UK Ministry now being refurbished and being overlooked although this naissance aircraft and of Defence for the aircraft is a modified for tanker duties by might prove technologically dif-

CONTINUED FROM PREVIOUS PAGE

and similar systems have been reputation for innovation in pilot. fitted to the Tornado multi-role advanced technology, particu-

gramme to adapt its AD 620 The latest to use the Marconi

Marconi expects the system to and a new head-up display

from a lack of adequate the 809 aircraft planned, 385 new equipment. Successive are for the RAF, 324 for the reductions in spending through Government cuts in overall defence budgets, and failure on the part of Government to keep services' pay levels comparable with those in civilian life.

The result of these problems has been not only a steady drain from the service of a substantial number of its most highly qualified personnel, but also considerable difficulties in recruiting adequate numbers of the RAF, 324 for the gramme is the biggest yet seen on a military aircraft in Europe and 100 for the Italian Air on a military aircraft in Europe and 100 for the Italian Air on a military aircraft in Europe and 100 for the Italian Air on a military aircraft in Europe and 100 for the Italian Air on a military aircraft in Europe and 100 for the Italian Air on a military aircraft in Europe and 100 for the Italian Air of uncertainty or two, it will be employing some 10,000 workers in British Aerospace, 6,000 at Rolls-Royce and avionics programmes. Indirectly, it will employ another to the UK and the Western seaboards of other NATO European countries—and avionics programmes. Indirectly, it will employ another to the UK and the Western seaboards of other two, it will be employing some 10,000 workers in British Aerospace, 6,000 at Rolls-Royce and avionics programmes. Indirectly, it will employ another to the UK and the Western seaboards of other two, it will be employing some 10,000 workers in British Aerospace, 6,000 at Rolls-Royce and avionics programmes. Indirectly, it will employ another to the UK and the Western seaboards of other two, it will be employing some 10,000 workers in British Aerospace, 6,000 at Rolls-Royce and attack across the Central and avionics programmes. Indirectly, it will employ another to the UK and the Western seaboards of other two, it will be employing and attack across the Central and avionics programmes. Indirectly it will employ another to the UK and the Western seaboards of other two, it wil

The Tornado is not the only Tornado coupled with the Air

push more resources in this now being built, and will by RAF need for a medium-lift that there are many other direction, but we still have a during 1979.

good deal of catching up to de. The Tornado will be capable order for 30 of the big Boeing prove useful. These include imit we are to match the growing of speeds of more than twice Vertex H-47 Chinooks, costing proved methods of low-level interest to our country."

The Tornado is a multi-role with its wings swept back, delivered due to start around weapons such as Cruise Missiles, combat aircraft, designed to while the aircraft will also be mid-1980. Also, earlier this year, together with improved "electreplace a number of ageing able to land and take off at it was announced that the tronic counter measures."

RAF's languagements with there are many other helicopter has been met by an developments than can also developments than can also be include improve useful. These include improve useful. These include improved methods of low-level interest to our country."

The Tornado is a multi-role with its wings swept back, delivered due to start around weapons such as Cruise Missiles, combat aircraft, designed to while the aircraft will also be mid-1980. Also, earlier this year, together with improved "electreplace a number of ageing able to land and take off at it was announced that the tronic counter measures."

able emphasis is being placed behind the scenes on the development of the so-called Jaguar-Harrier replacement for the late 1980s. Currently known as Air Staff Target 403, the primary aim is to try to evolve a light-weight, fast, highly used with advantage by many be available on the general working with a HUD weapon manoeuvrable strike-attack airalcoraft of all types for addi- aviation market within two aiming computer system taken craft capable of also holding its

ional flight safety.

years. The company is expected from the American A-4M own in air-to-air-combat.

In the military field British to sim the greater proportion HUDWAC production line.

The aim is not to devel In the military field British to sain the greater proportion companies have a world lead of sales of the new system at companies have a world lead of sales of the new system at companies have a world lead of sales of the new system at the North American market, in certain specialised areas the North American market, in certain specialised areas the North American market, in the Decca Navigator Company through Canadian Marconi, at make price of slightly more contract from the British than 17,500.

Marconi Avionics, which is a part of the GEC-Marconi Electory and automatic chart equipment, tronks group, is expected to the Doppler so equipment is group, is expected to the Doppler So equipment is group, is expected to the Doppler So equipment is group, is expected to the Tornado. These must try to forecast not only include a combined moving map display with superimposed 10 to 20 years from now, but radar for the navigator and a list be in such things as microlated and similar systems have been reputation for innovation in pilot. The aim is not to develop just electronics, composite materials. is considerable export potential at Farnborough it is expected to show the so-called monopher 70 systems were made, and fitted to some 86 different types of fixed and notary wing abrevalt used by 45 countries. Marconi Avionics is nearing completion of a four-year pro-use in a number of great to show the so-called for military applications, applications, and the so-called monopher 70 systems were made, use in civil airliners. The borglas for the U.S. Navy A-18 of this new aircraft is proceed-them to some 86 different types of fixed and notary wing abrevalt used by 45 countries.

Marconi Avionics is nearing for use in a number of completion of a four-year pro-use in a number of great deal of effort is being horizontal displays to McDonnell placed. The detailed conception Donglas for the U.S. Navy A-18 of this new aircraft is proceed-them types of fixed and notary wing some time, and Marconi has produced head-up display sysmich will work under licence But that such an aircraft will greatly to use the Marconi Caffi reaches the production for it will be essential to the company's recent great deal of effort is being horizontal displays to McDonnell placed. The detailed conception Donglas for the U.S. Navy A-18 of this new aircraft is proceed-them types of fixed and notary wing some time, and Marconi has produced head-up display sysmich will work under licence But that such an aircraft will greatly the carried out with the being placed on the possibility which will work under licence But that such an aircraft will greatly the carried out with the being placed on the possibility which will work under licence from Ferranti. When the air-carried out with the being placed on the possibility which will work under licence from Ferranti. When the air-carried out with the being placed on the possibility which will work under licence from Ferranti. The detailed conception of the U.S. Algorithm to the possibility of the carried out with the being placed on the possibility which will work under licence from Ferranti. One of the company's recent guidance systems and weapons ministery area-navigation system display is the F-16, in quantity this will bring a production RAF's front-line capability in the advantage of using existing European air forces. The F-16 system worth up to \$9.5m.

The latest to use the Marconi phase, Ferranti is confident that supplement the Tornado in the to civil use. The system has production for the U.S. and contract for its moving map the 1990s and probably even circust instrumentation, and will use the HUDSIGHT unit craft reaches the production for it will be essential to LMcL.



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2001



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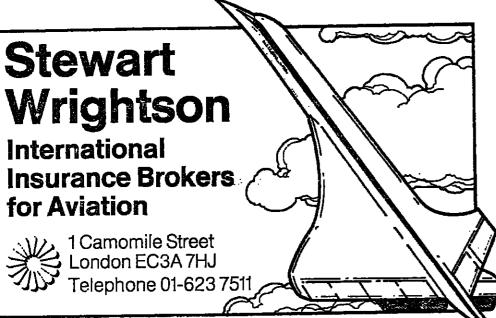
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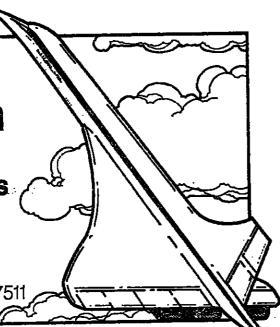
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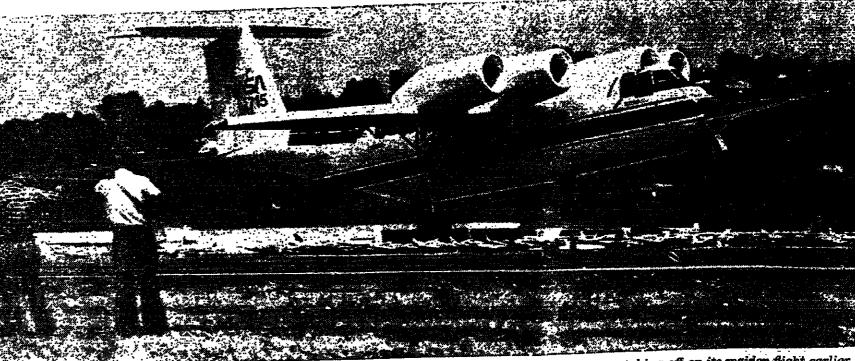
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**Electronics Weekly** 



The U.S. National Aeronautics and Space Administration's Quiet Short-Haul Research Aircraft seen taking off on its maiden flight earlier this summer from Boeing Field in Seattle. This one-of-a-kind research aircraft is intended to demonstrate new methods of reducing the noise of modern airliners and of shortening their take-off and landing runs. Both improvements will be essential for new airliners of the future, especially those on "bus-stop" type air routes.

# Well set for progress

UNITED STATES

THE U.S. aerospace industry is their ageing 707s, and DC3s. well set to build on the solid By late August Boeing had than at any time this decade, Most attention has focused called upon to bear between 13 well set to build on the solid By late August Boeing had than at any time this decade, Most attention has focused called upon to bear between 13 well set to build on the solid By late August Boeing had than at any time this decade, Most attention has focused called upon to bear between 13 gains established last year when taken 71 orders for the 727, with 318 aircraft to be recently on the 767 whose costs.

was actually worth less after 60 orders swept in compared to Lambert, reckons that commeradjusting for inflation than in a record 42 in the whole of last cial aircraft revenues for the the peak years of the late 1960s. year. Nonetheless, last year's improvegroups—aircraft, missiles, space Lockheed's L-1011 TriStar is to an estimated \$150m in 1977. is a twin-engined narrow-bodied ments were across the board and Orders with net profit after taxes as a Pan Am. By late August the and Lockheed should, he says, negrentage of calculatoring company had taken 18 few hard and Lockheed should, he says, laurabing and the first and the says, laurabing and the first and the says, laurabing and the first and the says, laurabing and the says and the says are says and say from 3.4 per cent to 4.2 per orders, which was more than in In contrast, however, it is cent.

bumper one for Boeing, company had orders for 28 DC-9 mercial aircraft development at reason and partially to ensure the extraordinary many bumper one for Boeing, company had orders for 28 DC-9 mercial aircraft development at reason and partially to ensure the extraordinary many many bumper one for Boeing, company had orders for 28 DC-9 mercial aircraft development at reason and partially to ensure the extraordinary gramme.

McDonnell Douglas and Lock-jets and 23 of the wide-bodied a time when foreign competi- a flow of orders from foreign gramme.

John 358 orders compared to 202 in above last year's first half for ten years or more. Boeing foreign participation in the pro-1976 and 132 in 1975. At the beginning of the year most analysts expected this order rate to slow down, largely

sales, profits and order books which is slightly below the rate delivered. McDonnell Douglas, launch was confirmed in July costs. the 737 since 1974 but by late amounted to a modest 31.

the Boeing 727. To some extent year with more than last year's now offering three new aircraft Aeritalia and this is expected

the end of June stood higher by pass ratio jet engines.

three companies together will top \$10bn in 1980 and that Boeing's profits from this sector

Most of the increase in the pared with just two last year. The risks facing these companies

the two will cut into profit industry's order book from The order rate at McDonnell are greater than they have However, launch costs of the margins which means that industry's order book from The order rate at McDonnell are greater than they have However, launch costs of the margins which means that \$39.7bn to \$44.3bn was the Douglas is also running well been for several years. This is 767/777 family are thought to Boeing is unlikely to gain the

#### 'I hird

The 757 is the third new may approach \$600m compared model planned by Boeing and non-aerospace products, also having a good year thanks Meanwhile, commercial aircraft, sealing 140 to 160 pas-

result of commercial aircraft ahead of last year. By the end because the aerospace industry be close to \$3.5bn over the next 20 per cent or more which is result of commercial affectant aneau of most year. By the conductine actuapers inducting a new phase of comfive years and partially for this thought to be the yield from orders. Last year proved a of June the St. Louis-based is entering a new phase of comfive years and partially for this thought to be the yield from

because of an expected fall in figures, although it would still is the company with the ject. A shared risks agreement demand for the world's most surprise many observers if greatest exposure, but also take was announced in August with successful commercial aircraft, McDonnell Douglas finished the greatest potential reward. It is the Italian state manufacturer, incorporating advanced wing to be followed by an agreement correct as U.S. airlines complete replacement orders for their ageing 707s, and DC3s.

Interpolating advanced wing to be followed by an agreement technology, increased use of with prospective Japanese light-weight materials and high partners. Such agreements not-Most attention has focused called upon to bear between 75

increased substantially. The of the previous two years How with 123 on order, had the by an order for 30 aircraft from United's order for Boeing considerable growth of airline ever, this had been more than highest backlog since 1973. But United Airlines. This is a 767s coupled with Airlines traffic is helping to maintain a offset by a hefty increase in Lockheed was still far short of twin-engined wide-bodied air- Industrie's decision to develop and order rate for commercial orders for the 737 and 747 air. good order rate for commercial orders for the 737 and 747 airairliners, while general aviation craft. Boeing has not booked orders for 104 aircraft and its and seating 180-200 passengers the A-300 Airbus has led orders and military sales are more than 39 orders a year for total at the end of June also climbing steadily.

Lockheed was still far short of twin-engined wide-oodied airinches decision to develop twin-engined wide-oodied airinches Mr. Alan Benasuli, aerospace the 767 with the same fuselage, version of this type of aircraft, \$32.3bn which, though welcome, ing no less of a sales boom, with analyst with Drexel Burnham was actually worth loss of a sales actually worth loss of a sa incremental development costs
—estimated at between \$50m and \$100m—the company may be tempted to try to win a small

foothold in this market. Assuming that Airbus and Boeing are the two major factors any year since 1973 and com-generally acknowledged that possible first deliveres in However, competition between Most of the increase in the pared with just two last year, the risks facing these companies 1983-84.

The two will cut into profit and the two will be two will cut into profit and the two will be two

John Wyles

# Business aircraft a growing fleet THE USE of small transport executives who cannot afford to purchasing company or execu- has been slower, the Business

appreciate the greater comfort, scattered factories or omices. and could provide benefits to the interest in business flying is convenience and cost savings. Whereas the scheduled air-whole company, and not just to here to stay, and unlikely to that this form of communical lines are served by 38 airports one or two executives. The fall suddenly, unless there is a that this form of communicatines are served by 38 airports one or two executives. The ran suddenty, unless there is a tions can give them compared in Britain, there are a further business aircraft must be a dramatic downturn in business with normal scheduled air 400 or so airstrips and airfields tool of management and not a fortunes—when the company transport. In Britain, particu- used solely by general aviation "chairman's toy." and propeller-driven aircraft for In addition, throughout ing and flying a business airits expenses, however, is little
use by executives is expanding. Western Europe, there are many craft, a company must include

The signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundled of similar could be signs are that a bundle of similar could be signs are that a bundle of similar could be signs are that a bundle of similar could be signs as a similar could be signed as a similar could be signs as a similar could be signed a

ing flying, gliding, and such small, could negotiate. other aeronautical activities as Morale "hang-gliding" and ballooning. the most rapidly expanding. It is really this operational ikely to top £1bn.

industrial depression there was craft than when he is obliged a slackening in demand for air to use the conventional transport, business aviation scheduled services of the public-remained one of the stronger transport airlines. 67 general aviation aircraft were sold compared with 83 in the whole of 1976.

tives of general aviation economics and other likely operators suggests that this benefits. improvement is likely to con-

world, as companies and their problems involved in transport saving of time over com- of which are jets.

executives come increasingly to from airports to perhaps widely mercial methods of transport. The Association believes that appreciate the greater comfort, scattered factories or offices.

and could provide benefits to the interest in business flying is

some time to come.

"Business aviation" is part
many of them having customs crew salaries and expenses;
"Business aviation" is part
many of them having customs crew salaries and expenses;
many of them having customs crew salaries and expenses;
many of them having customs crew salaries and expenses;
many of them having customs crew salaries and expenses;
many of them having customs crew salaries and expenses;
many of them having customs crew salaries and expenses;
mext.
The cost benefits, however,
at short notice. If a helicopter landing fees. "general aviation," which at short notice. If a nelicopter landing fees.

can be considerable, as the involves all types of flying out- is used in place of a fixed-wing Against these must be set the General Aviation Manufacture transport aircraft, this operational flexiinvolves all types or nying out a use in passe of Against these must be set the General Aviation Manufactive the public-service transport aircraft, this operational flexineed for a greater number of the bility is considerably enhanced, overnight stays if the executive has pointed out. The Association to the property of the public stemming from the ability to the ability stemming from the ability stemming from the ability stemming from the ability stemming from the ability stemming scheduled and charter airlines. stemming from the ability to had been obliged to use scheduled aviation includes land and take-off vertically—duled airlines, with reduced not only business aviation, but the second confined spaces that devibility and greater total to second confined spaces that the second confined spa not only outliness aviation, out no fixed-wing aircraft, however travelling time.

the most rapidly expanding areas of general aviation, which in itself is now growing rapidly.

In itself is now growing rapidly.

The description of the business air which 550 are business jets. In craft or helicopter which, when Britain, where development translated into time saved is According to recent research translated into time saved, is by Frost and Sullivan, market accounting for the growing research analysts, spending by companies and individuals on aviation. Allied to the direct over 20,000 general aviation air. savings in cost and convenience craft during the next decade is is the less-quantifiable but nonetheless significant morale factor in that a busy and much While in the period immeditavelled executive spends less ately following the oil crisis time away from home when he of late 1973 and the subsequent has the use of a company arrange of the company arrange of

elements in aviation, and British Aerospace, which recovered much more quickly, manufactures the successful 125 especially in the U.S. In the business jet, estimates that UK, the recovery was slower, there are over 1,000 business but is now very strong, and in the provided around the world in the service around the world. the first six months of last year jets in service around the world. bought by rich individuals for their exclusive, personal use, but the vast majority have been All the evidence from aircraft bought by companies after manufacturers and representa detailed evaluation of operating

For a business jet to be a successful purchase or lease, a One of the most quoted advan- potential user would typically tages of the business aircraft is need to travel extensively the freedom it can give to throughout the year.

aircraft for business and execu- waste time in walting for con- tive would also need to demon- Aircraft Users Association has tive travel is now expanding ventional, scheduled airline strate that the operation of a 57 corporate members, which rapidly throughout the Western services, and wish to avoid the business jet could give a useful own 112 business aircraft, 42 world, as companies and their problems involved in transport saving of time over com- of which are jets.

and all the signs are that a hundreds of similar small air-depreciation; insurance for the more than a gesture, for comhealthy demand will prevail for strips or local airfields that are airframe and for passengers and panies have been known to sell

The most extensive use of

husiness aircraft is to be found in the U.S., where the leading 1,000 companies alone now of up to 25 per operate over 1,360 aircraft, of of the air taxl.

aircraft for business and execu- waste time in waiting for con- tive would also need to demon- Aircraft Users' Association has

In assessing the costs of buy- to be cut. Occasionally the

has pointed out. The Associa-tion has estimated that on a direct comparison, the seat mile cost of a European scheduled airline and an air taxi, hired for a specific occasion or for a period lease, with a full load of passengers, can show a saving of up to 25 per cent in favour

Lynton McLain

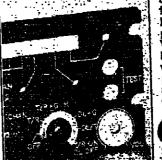
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# New ring of confidence

#### FRANCE

THERE IS beginning to be a under which the U.S. company without British participation the Franco-American CFM-56, competition to supply fighter spatiale, the State-owned con-jelling.

they have a series of winners in

even point of sales, and a new go-ahead for the 200-seater 310 self as well as the McDonnell-tend to regard as the great version of the Airbus is to be version of the Airbus has been Douglas project for an Advanced post-war missed opportunity in developed. In the military received there seems much more Technology Medium Range the same way as the British sphere the Franco-German doubt about whether a Euro-design.

Alpha-Jet trainer is selling sub-pean competitor in the 136-160 In the second place the JET stantially and an agreement has seat class of aircraft can be has always been designed just been signed with Lockheed justified commercially, with or around only one type of engine, under which the U.S. company without British participation about the second place the JET the question of British participation of the second place the JET advance.

The question of British participation around only one type of engine, cipation in the 310 is not essentially and an agreement has seat class of aircraft can be has always been designed advance. aircraft to Norway, Depmark: cern, now ranks as a substantial fin part this is because of the life Caravelles on condition that long guerrilla war to gain accepbasic versions of the Falcon, tance for Concorde in the U.S. Dassault has also made its a 186-seat capacity the proposed both parts of this scenario are Instead, the French now think presence felt in the market for smaller version of the JET At the time of writing, as 186-seat capacity the proposed both parts of this scenario are foggy since the company's pilots is still its ability to sell complete the proposed both parts of this scenario are smaller version of the JET at the time of writing, the French now think presence felt in the market for smaller version of the JET at the time of writing, the French now think presence felt in the market for smaller version of the JET at the time of writing, the JET at the time of writing, the JET at the time of writing, the JET at the time of writing.

the international battle for mar. There remain of course, deep the existing and strong-selling with two men "up front" recent large European successes kets. Since the turn of the year uncertainties. The foremost of Boeing 737. As the aircraft rather than three and the combine of the Airbus by Eastern

new ring of confidence about will sponsor the Alpha-Jet in the Essentially tripartite discussions which is a civilian derivative of tial. British Aerospace will contine French aerospace industry, competition to find a replace between the British, French and the General Electric engine B2 and B4 versions and, if the two sour episodes of the ment trainer for the U.S. Navy. Germans on such a project, the intended for the RI homber. The two sour episodes of the ment trainer for the U.S. Navy. Germans on such a project, the intended for the B-I bomber. past couple of years are behind Still in the military area the JET or Joint European Transit: the defeat of the Dassault prototype of the latest Dassault port, have been going on for The only company to show the consortium, will undoubtedly Mirage in the "Arms Deal of Mirage, the 2000, is flying while more than a year, but the propositive interest in the JET is make the new wing for the 310 the Century," against American in the helicopter sphere Aero ject still seems a long way from Air France: it was suthorised to as well. If not, outline contracts lease 13 Boeing 737s to replace exist for other suppliers.

would be in competition with are refusing to operate the 737 petitively in the U.S. The two

cipation in the 310 is not essenthere is British participation in

the international battle for mar. There remain, or course, deep the existing and strong-sening hets. Since the turn of the year uncertainties. The foremost of Boeing 737. As the aircraft the orders for the Airbus have them is whether the aim of degoes up in size it bumps up doubled making it possible for veloping a full family of air against, in turn, the existing to order the air doubled making it possible for veloping a full family of air against, in turn, the existing to order the long-range TriStar to

An A-300 Airbus in accrice with Eastern Airlines of the U.S. The Airbus is now

the delivery queue.

There is relatively little development in the French aerospace sector which is not facturers. United finally opted Franco-German and production arily because Dassault is, by tradition, a company intensely proud of its know-how and partly because the company is crucial to the maintenance of an independent of the methods of the first time and partly because the company is crucial to the maintenance of Dassault's Falcon series of busi
There is relatively little development in the French aerospace sector which is not facturers. United finally opted Franco-German and production follow its predecessors onto the methods of its acquisition along the hard struggle, plant at Toulouse where the partly because the company intensely proud of its know-how and partly because the company is crucial to the maintenance of an independent defence by the factor of the first time is relatively little two factors in countries in competition, and with the CFM-56 still look. Year of which some FFr 8bn two countries in competition, and with the CFM-56 still look. Year of which some FFr 8bn two countries in competition, and with the CFM-56 still look. Year of which some FFr 8bn two countries in competition, and with the CFM-56 still look. Year of which some FFr 8bn to he along the provision by the Europeans of The Transall military transport, in genglic and with the CFM-56 still look. Year of which some FFr 8bn to he along the form and with the CFM-56 still look. In an with the CFM-56 still look. Year of which some FFr 8bn the form in genglic and with the CFM-56 still look. Year of which some FFr 8bn to he he he has a home its health was military.

On the structural side the Government is still warking out the provision by the European and production follow its predecessors onto the the methods of its acquisition and production follow its predecessors onto the the methods of its acquisition.

On the Structural side the Government is still warking out the follow its predecessors onto the the methods of its future, t

crucial to the maintenance of an independent defence strategy.

I jet projects. Herr Martin pany Deutsche Airbus), are Pride of place in collaborators. There are likely official "co-ordinator" for the suggestions. There are likely official "co-ordinator" for the to be no strategic decisions of industry, is quite simply not this sort before the outstanding yet convinced that either of domestic problem of the industry is resolved—when, and on find a market. He would prefer what terms, these two companies form existing orders, and independent defence an independent defence strategy.

Dassault's Falcon series of busi—an example of a unitateral meximum pour tries of busi-defence an independent defence strategy.

Dassault's Falcon series of busi—enempting wenture—but about 2 quarter of gether with the continuing sales of the Mirage size of the

# Partnership the keynote

#### W. GERMANY

newest international grouping Boeing's offer to Fritain, which will develop a generation Military co-opt ation with the Herr Helmut Langfelder, heir of advanced military helicopters U.S. is a very different matter, to Herr Ludwig Boelkow, was operative programmes.

the development of a truly reached. Luropean industry as a political Similarly. German manuscript the German VFW factories gost they do. But they do not facturers are already involved also stand to gain from any want to pursue it except on in exploratory talks on designs further sales advances by the terms that make business sense. for the advanced tactical fighter Fokker-designed F-27 and F-28

#### **Pitfalls**

out what Bonn sees as the Blohm, has already signed an better deal for its shareholders. longer term commercial pitfalls agreement on joint development. To that extent, time may be on for Britain of "going Boeing." of the new technologies that its side.

And in appealing to London to such an aircraft will require rejoin the Europeans, it has with McDonnell Douglas.

Stressed its own need to be convinced by the manufacturers needly. Europe has much to on among its shareholders that the 310 opnion would be offer in such a partnership has at times set the ten state. Britain's signing up now to help develop the smaller Joint European Transport narrow-bodied

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version of the European Airbus, and not least, the resolution of the industry's future structure.

the past year or two so much yet he had have the power to more interested in seeking co-force their hands.

operative deals with Europe in Last December, Herr Gruener the industry's future structure.

the civil sector of the industry, acquired a more direct lever on the civil sector of the industry. In very broad terms, the even though the European the situation when he brought West German aerospace and the share of the world airliner marGovernment in Bonn agree that ket remains relatively modest. Fokker, in severe difficulties the future lies in strengthening Bonn is not against co-operation after it had been obliged to tion. Already, the West Germean to make sure that Europe successful VFW-614 short-haul man industry is involved in all is not merely used by the U.S. jet airliner programme. Serious the major European consortia grants as a subcontractor with merger discussions with MBE companies—Airbus Industrie, out design leadership or res were made a condition of

for the mid-1980s. What is true Here, the German Government tragically killed in a helicopter for the West German airframe is keenly interested in seeing crash. On the VFW-Fokker manufacturers is even more a reality made out of President side, there was indignation at relevant to the engine com- Carter's promise of a "two-way the condescending terms offered pames, likewise deeply com- street," and in making real by MBB, and continuing uncermilled to international co-progress towards joint develop- tainty about how the Dutch programmes. ment and procurement for interests should be financially Germany's absolute NATO. An immediate issue is protected, and how the crossfaith in partnership among that of a version of the Airborne frontier integration achieved by European countries is different Warning And Control System the group might be preserved in one important respect from (AWACS) for the European that of its principal associate, allies. A German consortium France, in that there is little the strident chauvinism still Dornier company is ready to go to be heard in Paris and ahead with the complex axionics

Once again, VFW-Fokker may directed mainly at the U.S. That and instrumentation of the air.

Once again, VFW-Fokker may is not to say that German officeraft as soon as a political as the flow of work for the Air. is not to say that derinan out craft as soon as a positical as the flow of work for the Air-ties do not ultimately regard decision on cests is finally as the flow of work for the Air-tie development of a truly reached.

aircraft which NATO will airliners and from subcontractrequire at the end of the next ing on the Tornado. Yet it seems TITIALIS

require at the end of the next has on the 19thaud. Fet it seems decade, and they are keen to unlikely that the German-Dutch During the talks this past make this as much a trans- group, hailed at its creation as a summer on whether or not Atlantic as an inter-European pioneering multinational Eritain rejoins the Airbus venture. The biggest of the merger, can maintain its group. West Germany's voice West German aerospace com- independence indefinitely or do has been persistent in pointing panies. Messerschmitt-Boelkow- more than strike a slightly out what Bonn sees as the Blohm, has already signed an better deal for its shareholders.

that the 310 project would be offer in such a partnership has has, at times, set the two state a cales success, before it would come from the multinational governments of Hamburg and commit funds. Had the 310 Spacelab consortium, in which Bavaria (which hold some 40 commit funds. Had the 310 Spacelab consortium, in which Bavaria (which hold some 40 not wort an impressive array of a complete orbital laboratory per cent between them) at odds launching orders in July, from for use with the U.S. Space with the big industrial comarrines known for their independence from governmental Europe with co-ordination by The two state governments, coninterference (including Luft. ERNO, a subsidiary of the cerned about jobs, evidently thansal, it is not certain that German — Dutch Vereinigte mean to hang on to their hold-the German government would be flugtechnische Werke—Fokker ings long enough to have a group. The future of the condinctivation is carried out— As it is, Bonn has quietly dissociated itself from the Airbus consordium manufacturers consortium manusacturers programme appears, however, Herr Gruener and the Federal claim that joining in the 310 programme appears, however, Herr Gruener and the Federal programme must also mean less than certain once the initial Government see it. As a first programme up now to help programme which will step towards shaking out MBB's Spacelah missions (which will step towards shaking out MBB's include European astronauts) have been completed.

Boeing has sold its 12 per cent

German-French Alpha Jet. now in full production and the European Airbus ringing up a steady flow of orders for the 310 and for the B-2 and B-4 types, the work prospects for the West German aerospace no longer smaller works and rationalislook as bleak as they did a year ation of a workforce that, at ago. There is even intermittent talk of the possibility of capacity the British or French industry being expanded, if the Airbus yet still probably too big programme picks up to the Dornier, the third company in point where output might be the industry, is firmly resolved raised to four aircraft a month; reised to four aircraft a month; to keep its independence and why not then have a second with the Alpha-Jet and a production line, and why not in number of profitable smaller

two German partners in Airbus Industrie (via the holding com-

FOR THE West German aerospace industry, the past 12
months have been decisive in
setting out the path it is likely
to take in the next few years,
without so far pushing it very
far down that path. Several of
the-big decisions that had been
the-big deci

with the Americans, but it does shut down the commercially un the Panavia group building the possibility of its own. That is Bonn's rescue operation. Yet Tornado Multi-role Combat Air-exactly what the Germans fear these have still come to nothing craft. Euro-missile: and the might result from deals such as concrete. MBB suffered a heavy might result from deals such as concrete. MBB suffered a heavy chairman blow when its new chairman,

Once again, VFW-Fokker may

have been completed.

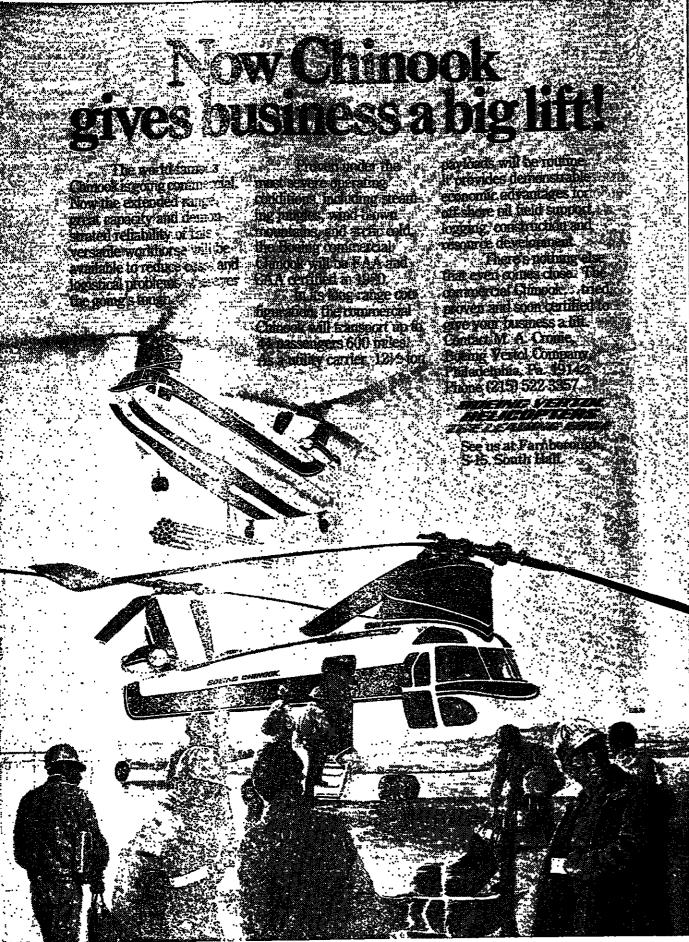
With the two main military stake to Siemens, the electrical grant, which in turn is hoping British-Italian Tormado and the to sell it to an industrial consortium.

It remains to be see whether a merged MBB-VFW group, perhaps also drawing in Fokker, would be able to bite the bullet of painful closures of around 50,000, is smaller than yet still probably too big. Dornier, the third company in MBB and VFW-Fokker, the programmes, it can probably

Adrian Dicks







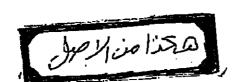


The A300 is in service worldwide, and proving to be

far and away the most economical aircraft in its market. Now the A300 is joined by the A310, the aircraft airlines have asked for. A 200-seater with the same wide-body fuselage cross section tailored for the lower density medium haul routes. The A310 has a new wing optimized for this market.

Both the A300 and the A310 incorporate the technology of the 80's. The two models and their variants are the basis of a new family, enabling Airbus Industrie to maintain its leadership and airlines to operate profitably in the medium haul market.

**SAirbus Industrie** 



# The armoury hides its power

#### SOVIET UNION

At the same time, the industry suports an airline the size 1971-75 five-year plan goal). while it also keeps an air force engineers, supplied with a vast array of lifferent aircraft ranging from mall helicopters to the most dvanced supersonic combat machines such as MiG-25 Fox-

a few visiting dignitaries such long-range bombers and recon-

the the aerospace industries of the West reveal themselves.

But its sheer size is indicated by the fact that Soviet civil and military aviation remains largely self-sufficient, with virtually no imports beyond a small quantity of high-technology specialist equipment and an occasional interest shown in

facilities by Western journalists are: Antonov, specialising in lems during development, not are in service with Aeroflot, are firmly discouraged, and only transport aircraft and heavy least the crash of the demon- and others are in use by various a few visiting disnitaries such least the crash of the demon-

or statistics of its locations, its been permitted to visit foreign also a helicopter specialist with in Africa, so far no such regular total labour force, its volume of output and its plans and prospects are published in the way peets are published in the way the the aerospace industries of mote foreign sales and on the whose most significant developmote foreign sales, and on the whose most significant develop-

an occasional interest shown in some specialist areas of Western aerospace development, such as advanced aeroment, such as advanced aeroment, such as advanced aeroments.

The some specialist areas of tively simple solutions to some whose most famous product to medium ranges. Thus it is dayanced technological probability of research, sonic airliner, the so-called performance to the European design, development and pro
"Concordski" because of its twin-engined A-300 Airbus. This duction remains exceptionally accordanced to the biggest Soriet passenger. duction remains exceptionally design similarities to the Anglo- is the biggest Soviet passenger high, and all those in the West French Concorde supersonic air- transport aircraft in production, who have had any kind of access who have had any kind of access liner; and Yakovlev, a versatile but while so far there are no of Aerofiot (which last year at all to Soviet aerospace—for design bureau which has pro-reports of anything larger in example, the U.S. scientists induced not only all-weather prospect, there is little doubt from 1976 to 1980 is expected to carry no less than 550m, a under no delusions as to the three engined short-range trans. The increasing volume of inrise of 30 per cent over the competence or quality of Soviet port aircraft, such as the Yak-40 ternal air travel, a need will engineers, designers and and Yak-42.

dustry is not without its design problems has been proved by

as Heads of State or Ministers naisance types. Berley, involved stration aircraft at the Paris involved in aerospace affairs with amphibious aircraft; Air Show in 1973 which delayed have been allowed to see Soviet Hyushin, founded by the late its entry into regular airline civil aircraft production, while Sergei Hyushin, and also a trans-service. and although it is military production plants port aircraft design bureau; operating on a limited number remain a closed book to the Kamov, specialising in heli- of domestic air routes, the aircopters of various types; MiG. craft is still rarely seen outside But for all this secrecy the founded by the late Colonel the Soviet Union even on de-West has been able to learn a General Artem I. Mikoyan, his monstration flights. Although largest in the world, matching west has been able to learn a deficial Artest I. Surveyon, his monstration nights. Although that of the U.S. in size and great deal about Soviet aviation partner Mikhail I. Gurevich, eventually it is intended that it scope, but also one of the most secretive. Virtually no details or statistics of its locations, its

That the Soviet aerospace in comparable to the U.S. Boeing

Considerable significance also the comparatively poor per-attaches to such other Soviet Broadly, the Soviet aerospace formance of the Tu-144 super- transport aircraft developments bat and the Sukhoi Su-19 Fencer industry is based on ten basic sonic airliner. Although begun as the Tupolev Tu-154 three-Supersonic attack aircraft "design bureaux," originally at about the same time as the engined medium-to-long range now being seen increasingly on founded by, and in some cases Concorde, with the prototype airliner, and the more recently the NATO / Warsaw Pact still run by, some of the most flying a little in advance of the developed Yakovlev Yak-42 borders in central Europe. famous names in world aviation. Anglo-French aircraft, the Tu-three-engined short-range trans-Visits to Soviet aerospace In alphabetical order, these 144 suffered a number of prob-port. Well over 100 Tu-154s

CONTINUED ON NEXT PAGE

# Long-term promise of the Boeing deal

#### ITALY

ITALY HAS just fulfilled its wildest ambitions in the civil aviation field. After some seven part of which was eaten up in finally reached this month State aerospace company, which of Aeritalia's sales, is notorious will see Aeritalia participate on for deferring payments which, struction of a new mediumrange passenger airliner.

In many respects, the deal, debt. which will give Aeritalia a The share ofg some 15 per cent, valued at about \$2bn in the new dictate in large measure the future shape of the Italian aerospace industry. In the next five years the weight of civil aerospace is now likely to increase substantially in Italy, gradually eroding the dominance so far of military production.

#### Merger

For the past decade or so since the creation of Aeritalia through the merger of the nonengine aerospace activities of the private Fiat group and the aerospace sector of the IRI-Finmeccanica State holding in 1969, to give Italy a national areospace industry capable of participating in international joint ventures, the emphasis tary aircraft currently account for as much as three quarters over, which last year totalled ously controversial sale to the Approval L740bn (about £450m), repre-

of 2.6 per cent of Gross 1980s between military and structure as well as the thermal Domestic Product—the great civil production. negotiations, agreement was penditure of all kinds. At the between the giant Seattle Boethe single biggest customer,
ing group and Aeritalia, Italy's
accounting for about 70 per cent

valued at about \$2bn in the new forced the industry to look else—flaps and leading edge slats, ness and general profitability. Boeing project, is expected to where, to export markets. But wing-tips, elevators, the vertical A field in which these digitate in large measure the engine licences has severely engineering programme of the helicopters. One of the most limited overseas sales. Last new aircraft. year, exports totalled L330bn Meanwhile military product is the Agusta group which has and represented a drop of 7 per tion remains Aeritalia's main, wou sizeable orders both for

transport aircraft is a case in with British Aerospace and he active concerns are Aermacchi point. It is currently fitted with West German Messerschmidt and Piaggio. Aermacchi is now General Electric T64 engines, group in the Panavia pro-working on its new MB-339 but a U.S. embargo has blocked gramme for the construction of trainer-fighter to replace its \$400m of some 20 G-222 aircraft supersonic aircraft, the Tornado Piaggio has updated its standard has long suspected that U.S. ture the wings of the 809 air- None the less, the focal point embargoes are not wholly moti- craft to be built for the Air of the Italian agreepace industry vated by security reasons, but Forces of the three countries, remains Aeritalia. It is the has focused essentially on mili-tary production. Indeed milisorts to the larger Lockheed Force. Hercules transport aircraft-itself the subject of a notori-

Aeritalia, however, is now L1,265bn

and the group's constantly rising indebtedness. The absence
of an adequate Government
aerospace policy, and in particular the absence of the sort
of financial backing required for
the development of a national
aerospace industry, have been
aerospace industry, have been
serious obstacles to growth.

The absence of its produce G91Y twin-engine single-seater whether this awareness on be
tive activities by reducing the tactical fighter-bomber and the
put into practice and if the
put into practice and practice and practice and practice and practice and practice

wing control surfaces of the characteristics of until recently the lack of Gov- tail rubber and the radome relatively smaller concerns ernment export support and the Moreover, Aeritalia personnel continue to do well, especially reliance on predominantly U.S. will take part in the overall in export markets, is that of

cent in real terms over the stay. The Italian company in helicopters like the Augusta 109, the shorter term is pointing designed specifically for civilian Aeritalia's G-222 military particularly to its participation rather than military use. Other a sale valued at an estimated a multi-role, variable-geometry successful MB-336, to Libya. The Italian industry MRCA. Aeritalia will manufac P-166 light transport aircraft. also by more mundane commer- and it will assemble directly instrument with which the cial considerations, especially and test fly the 100 aircraft to authorities intend to ensure

senting a 4.2 per cent increase
in real terms over the previous hoping to get round the embargo modernisation programme for aviation field and to the by fitting the heavier Rolls- the Air Force has given the Tornado MRCA programme on Royce Tyne engine on the G-222 Italian industry some breathing the military side to build up a by next year. Negotiations with space, especially since in the substantial presence in the heavier to the development of Rolls-Royce are understood to Tornado programme. tary sales has proved a severe handicap to the development of Italy's national aerospace be at an advanced stage. other Italian companies are industry, and is forcefully Against this general back participating in one way or the importance of the aerospace reflected in the L20bn losses ground it is not altogether sure other with Aeritalia. Together industry, alongside electronics reported by Aeritalia last year and the group's constantly riss space industry in Italy has port aircraft, Aeritalia also country like Italy is certainly

The low level of defence new 767's wings as well as the number of international space

spending has exacerbated the delicate radome or nose cone, projects. Among them is the problems even and with the continuing con-Spacelab programme. Aeritalia further. Defence expenditure in struction of McDonnell Douglas operates within the framework Italy last year, according to the DC-9 and DC-10 body panels and of a consortium headed by the International Institute for tail units, Aeritalia eventually German ERNO-VFW Fokker Strategic Studies, amounted to hopes to see its activities more group and its space engineering some \$4.4bn-or the equivalent evenly distributed by the mid-sector designed the module's

Sig. Giuseppe Petrilli, the But Aeritalia, which employs years of discussions and stop-go wages, salaries, and current ex- chairman of the giant IRI State more than 10,000 of the 32,000 penditure of all kinds. At the same time the Italian Air Force, the single biggest customer, generate some 1,000 new jobs aspect of the country's aero-accounting for about 70 per cent of Aeritalia's sales, is notorious for deferring payments which. up a significant presence in the smaller concerns both in the a risk-sharing basis in Boeing's as a result of the disastrous up a significant presence in the civil avia-public and private sectors.

767 programme for the con-bureaucracy, can take up to 24 medium term in the civil avia-public and private sectors.

768 programme for the con-bureaucracy, can take up to 24 medium term to market. Under the terms Unlike Aeritalia, however, they months to settle, forcing the of the agreement with Boeing, tend to specialise in a specific aerospace industry further into Aeritalia will manufacture the range of products and have the The absence of a comprehen- new medium range passenger medium-sibe enterprise in their sive defence programme has aircraft, the wing trailing edge flexibility, market aggressive-

sector on an international level. The State aerospace group, for its part, is now looking towards Parliamentary approval of the the recent collaboration agree-(about £850m) ment iwth Boeing in the civil

Paul Betts

# Long debate over a new fighter

#### ISRAEL

Soviet

anxious about the prospects of industrial complex meeting a Electric engine, the men at IAI

aerospace industry in in terms of an aerospace in- from South America. Ecuador Israel and war which gave it dustry and the Export Institute placed an order for 24 aircraft,

such as the Mig-25 Foxbat, are bute to the potential dangers bureaux, and it would surprise

known to be in quantity pro- presented by Backfire, which in no-one in the West to find radi-

CONTINUED FROM PREVIOUS PAGE

export orders for the Mach 2.3 wide range of domestic needs refined and adapted the hybrid Reluctant Khr combat fighter. After the as well as capturing a growing until they today argue that the Americans vetoed sales to export market.

Khr is essentially a new Austria has possible to the combat fighter.

the impetus that pushed it into now has a special section but Washington, volcing appre-

the front rank of the small actively engaged in promoting hension about its effect on the bluntly states that "a small producers.

Aviation and aerospace Pride of place goes to the America, vetoed the sale. Other how. All the research and debasically means one company, Kfir, or Lion Cub, which has interested Latin American velopment resources in Israel

basically means one company, Kfir, or Lion Cub, which has interested Latin American velopment resources in Israel Israel Alreraft Industries (IAI), been combat proven in the States now look elsewhere.

ISRAEL'S AEROSPACE effort, which underwent dramatic growth in the past decade, is of interrelated and peripheral currently marking time while items.

It was President De Gaulle's Taiwanese appear to have been of Kfir exports, IAI tried to get currently marking time while items.

It was President De Gaulle's Taiwanese appear to have been of Kfir exports, IAI tried to get answering time while items.

It was President De Gaulle's Taiwanese appear to have been of Kfir exports, IAI tried to get intimidated by all the publicity a share in producing the U.S. the politicians debate whether Created 25 years ago as a the 1967 war which convinced which surrounded the deal. IAI General Dynamics' F-16 fighter to approve the development of a new fighter for the 1980s.

The industry is equally the country's largest military Mirage body with a General banking on it.

Dynamics opposed any production deal because it fears IAI

Americans vetoed sales to export market.

Kill is essentially a new South America, hopes hinged on The success of IAI has fed Creation.

Austria and Taiwan, which dozens of smaller plants, some However, it was that showed serious interest but are of which have moved from sub-dragging their heels because of contracting to independent proteing to independent proteing to independent proteing the political implications.

It was politics which created Government has begun to speak hopes for major export orders that agreement has begun to speak hopes for major export orders for Vienna's attention, but say that Austria's the Austria's that Austria's the compact of the Sides of the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that Austria's the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that Austria's the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that Austria's the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that Austria's the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that the Charges by the American power than that of the Swedish Viggen, the main competitor for Vienna's attention, but say that the Charges at the contraction of the Swedish Viggen the main competitor for Vienna's attention, but say that the charges at the contraction of the Swedish Viggen the main competitor for Vienna's attention, but say the charges by the American power than that of the Swedish Viggen the main competitor for Vienna's attention to the Swedish Viggen the main competitor for Vienna's attention to the Swedish Viggen the main competitor for Vienna's attention the Swedish Viggen t

The disappointment over the not appear to have been allayed.

Failure to win export orders But while the combat aircraft derives not only from the loss is the showpiece of the industry, of the money which could have the loss is the showpiece of the industry.

From an American company in furbishing Boeing 707s and section, admits that this is a first from being a one the late 1960s. After selling 50 720s, Today there are 36 Bedek-formidable task, especially a results have so far been disappointing.

we zeeded, especially in the Atlantic and attacking Britain costs are perhaps less of a provisionally dubbed the Aryeh, runs training courses in eight that with the current costs are perhaps less of a provisionally dubbed the Aryeh, runs training courses in eight that with the current costs are perhaps less of a provisionally dubbed the Aryeh, runs training courses in eight that with the current costs and Europe "through the back problem in the Soviet defence arena than they are in the gions. It is thus likely to be door." Unconfirmed reports one of the mainstays of Soviet have suggested that by early civil air transport for many this year, more than 100 Back. The single most successful ites of modern aerospace technology are such that an evolutionary rather than a revolutionary rather than a revolutionary approach to design is many different versions.

Defence indicates that while provisionally dubbed the Aryeh, runs training courses in eight that with the current or Lion.

The high costs and high risks somed.

The bigh costs and high risks somed.

The single most successful in the current in the source of its some in the source or its many different versions.

The single most successful in the current in the source or its customers' personally dubbed the Aryeh, runs training courses in eight that with the current in the source or its many approach to defence arena than they are in the increasing complexion in the Soviet arena than they are in the increasing complexion in the Soviet in such a venture has the single most successful in such a venture has the costs and high risks somed.

The bigh costs are average in the costs are average in the somed.

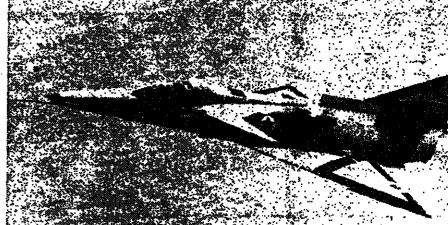
The bigh costs and high risks somed.

The bigh costs and high risks somed.

The bigh costs and the costs are average in the single for whi

tion deal because it fears IAI would apply the technology to go into competition.

for Vienna's attention, but say privately that Austria's that it was a copy of the Side. Chancellor Bruno Kreisky is relectant to give such a handsome order to a country of winder missile which subsequently competed for the same markets. The Defence Ministry has denied this charge, but critical. American producers' fears do



prints of a proven type like the two other aircraft, the Westwind a steady if unspectacular growth now underway to find export dream, there are few in Israel Mirage, and quite another to do executive jet and the Arava until 1970. Being outstripped markets for military products, who doubt that it will be closer it all unaided.

STOL transport. by the rapidly expanding manuated to develop items for the if further wars in the region Mr. Zvi Alon, long-time head. The Westwind was developed facturing division. Bedek civilian market.

of procurement and production from the Jet Commander pur-received a major boost in the Mr. Uri Segev, head of the later of the later

is Bedek will be able to supply money will be available for the

years to come, and can be expected to be developed into the Soviet Air Force and many different versions.

On the military side, very timing at a rate of about 30 little detailed information is available as to the volume of force of anything between 250 mmonut to about 1,800 aircraft believed to a year of all types. Certain basic types of combat aircraft, U.S. and Britain have paid the sail of the sould supposed and angers and that an evolutionary rather than a revolutionary rather than the seas and said rath than the seas and revolute said the seas and include surprise and include surprise

arilines in the Eastern bloc. currently being given, however, as minarize force. It is largely on the money which could gave be a subjusted to the Sukhol Su-19 Fencer, a mainstays of Soviet civil avia—"swinging-wings" attack in the late 1808. After selling 50 702s. Today there are 38 Bedekt formulation to command in the late 1808. After selling 50 702s. Today there are 38 Bedekt formulation to company. Budgeted the corporation of the civil and improved it to flying around the world. The in North America and Europe an region of NATO. The Yak-42, seating up to 100 passengers, has been designed to the both of the civil and the late 1808. After selling 50 702s. Today there are 38 Bedekt formulation to company in the state that this is a third interpretation of the command the world. The company is the state of the original aircraft, and if the production of the civil and more made it of the original aircraft, and interpretation of the civil and more made it of the original aircraft, and interpretation of the civil and more production of the civil and production of the civil and production of the civil and

its own helicopter, but if there field. With their resources more

David Lennon

# duction, with a variety of vertheir view could become an sions already known to the even greater menace to allied West, including the latest shipping in time of war than Foxbat-D. More attention is the large and growing Soviet non-one in the West to find radital unaided. Mr. Zvi Alor of procurement of pr M.D. at the Defence Ministry, chased lock, stock and barrel early 1970s when it started re- Export Institute's aerospace Wright at the beginning.

In this, the 75th anniversary year of powered flight, Shorts salute the Wright brothers—pioneers extraordinary and fathers of the world's aerospace industry.

It was from them that our company, in 1909, received the world's first aircraft manufacturing contract. We made their first production drawings and we built the first Wright Flyers for British customers.

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firsts and placed them among the early leaders of the industry.

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company's collaboration in a range of international aircraft projects, involving pods for Rolls-Royce RB.211 engines on the Lockheed TriStar and Boeing 747; the design and manufacture of wings for the Fokker F28 Fellowship; the manufacture of the main landinggear doors for all 747's and the production of a variety of flight and structural components for the TriStar.

Shorts are proud to be part of today's international aerospace industry. And we acknowledge our debt to the Wright brothers, who started it all three-quarters of a century ago.

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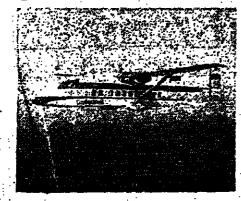




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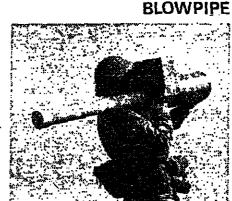




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# vernment

#### SWEDEN

have to abandon its capacity to develop and produce its own Evens eircraft.

autumn. Saab-Scania has been Mocated funds in the 1978-79 hudget to continue design work on the B3LA, but shortly after the commission has reported the three non-Socialist parties full-scale development.

The political background is complicated and contentious.

THE FUTURE of the Swedish project, as is the small Com
In the post-1973 economic schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry's dilemma of how the company has developed a schedule coincides with that for the industry is dilemma of how the company has developed a schedule coincides with that for the industry is dilemma of how the company has developed a schedule coincides with that for the industry is dilemma of how the company has developed a schedule coincides with that for the industry is dilemma of how the company has developed a schedule coincides with that for the industry is dilemma of how the company has developed a schedule coincides with the coincides with the coincides with the coincides with the coincides with t order from the Government to Government the moderates with other industrialised counsand for a new light (Conservatives), who hold the tries dependent on large energy stimulated partly by a request series only for the domestic defence portfolio through Mr. imports, it has become evident from Brazil, but the Italians are designated the B3LA. This has Eric Krönmark, have been that the country can no longer understood to be interested in producing a rather more designated to develop and produce producing a rather more contending for orders have been obtained for delivery two years during which injury. electeft industry hinges on an munist party. Within the situation, which Sweden shares order from the Government to Government the moderates with other industrialised counbeen the situation for the past energetically; supporting the afford to develop and produce producing a rather more present contending for orders have been obtained for delivery two years, during which injectively. Both the Capture and of components for McDonnell two years, during which inject industry. Both the Centre advanced weapons systems on advanced design than that from Austria, India and of components for McDonnell tions of Government cash have party of Prime Minister to Act of Prime Minister to A tions of Government cash have Party of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over many of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over many of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over many of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over many of Prime Minister its own, unless it can procure demanded by the Brazilians are procured to the project ticking over many of the Brazilians are procured to the project ticking over many of the Brazilians are procured to the project ticking over many of the Brazilians are procured to the Brazilians are procured to the project ticking over many of the Brazilians are procured to the B

as indicating scepticism about the three non-Socialist parties and of missues, production of telecommunications company is building, steel, textiles and craft to be built. The Swedish for the aircraft would be con-which is now closing down, with better placed to benefit from the decide whether or not to ask Parliament to commit funds for the aircraft industry cannot expect siderably enhanced and the a new range for the BILA. space projects than the aircraft to continue in its present size sharing of development and Work on the 372 air-to-air manufacturers. advanced technological field.

the Swedes have been facing up foreign manufacturers.

recent opinion polls is well turing key weapons domestic. AerMacchi have been working sideration by the current com-military aircraft production placed to return to power in ally. On the aircraft side the on a design known as the AMX mission on the aircraft industry, have been widely ventilated in the general election of Septem- result was Saab-Scania's Draken which is similar to the B3LA The Viggen's failure so far public debate within Sweden

replacement to the 105 with a past co-operated with the In July Mr. Krönmark put system. The industry has been Mr. Krönmark's Italian inde to deliveries to India. Cabinet appointed a commisthe betting on a decision arguing that for this very soundings have not been welsion to examine the alternatives favourable to Saab-Scania at reason it has much greater comed wholeheartedly by the to the new aircraft and the evens. He underlined that the export potential, particularly in B3LA's opponents in Sweden Replace

placing the B3LA order, but and it is fairly evident that any component costs could entail missile, which Saab-Scania has Mr. Krönmark has stressed the new interceptor to replace the significant budget savings. importance rather for Sweden Viggen in the Swedish air force The B3LA has, however,

aggressor. The credibility of sious have started with the into service with the air force, metres in daylight." A night

which according to the most pinned by a policy of manufactoraft project. Aeritalia and is one of the factors under con- moving into "alternatives" to

decision not to place the order up its mind despite remarks by those outside the major power co-operating in weapons manumith Saab-Scania. The commission is due to report this ence which could be interpreted invest in sophisticated aircraft. would, it is argued, undermine whose Swedish arguest property is a special to the future obtained by the control of the surface of the mission is due to report this ence which could be interpreted invest in sophisticated aircraft. would, it is argued, undermine whose Swedish arguest property is resisted developed. However, even such an ardent Swedish neutrality. On the ness. Domestic missile developthe B3LA. The aggravation of supporter of the B3LA project other hand it is obvious that if ment is hanging fire until the in the satellite itself and the the unemployment threat in an as Mr. Krönmark has acknow the preliminary discussions issue has been clarified. Saab general impression within economy which is already fac- ledged that it would probably with the Italians could be Scania hopes to replace the 05 Swedish industry is that the building, steel that the last wholly Swedish air firmed up the export prospects and 04 missiles, production of telecommunications company is building, steel that the same and of the satellite itself and the satellite itself and the satellite itself and the present in the satellite itself and the inches are proportion of the satellite itself and the inches are proportion of the satellite itself and the inches is made and the satellite itself and the inches is made and the satellite itself and the inches is made and the satellite itself and the inches is made and the satellite itself and the inches is made and the satellite itself and the inches is made and the inches is made in the satellite itself and the inches i

> of maintaining a foothold in an in the 1990s will have to be been designed not primarily as ticking over. purchased abroad or at best an export product but as one. In the meantime Saab-Scania or not that decision is favour-In fact for the past two years developed in co-operation with element in a hi-lo defence mix and Bofors have formed a joint able, it will have to shrink in to a situation which implies a Mr. Krönmark has already side Saab-Scania's more power. Corporation, which will be increasingly obvious that its radical change in their whole been marking out a fall-back ful, more sophisticated Viggen responsible for future Swedish viability depends on greater defence philosophy. Since the position on these lines which series. The Viggen will safe- missile development. Bofors is co-operation than before with last war Swedish neutrality has would preserve as much as guard employment in Saab-currently delivering to the foreign aircraft builders—and been complemented by a possible of Saab-Scania's design Scania's aircraft production Swedish army a close-range that raises political issues which defence based on conscription and development capacity division until well into the laser-guided air defence missile the Swedes have only just and with sufficient weapons should the B3LA decision go 1980s. The interceptor version which is claimed to be "the best begun to face up to. potential to deter a possible against the industry. Discus has only just started to come in the world within five kilo-

Social-Democrat opposition, the neutrality has been under a joint venture light attack air- version, now known as the A-20,

tions of Government cash have kept the project ticking over but with the final decision to go ahead with development being constantly postponed. Without this order Saab-Scania cannot fully employ its design team and will almost inevitably have to abandon its capacity to develop and produce its own wind the project ticking over Thorbjörn Fälldin and the substantial foreign orders for their factions, the weapons. Thorbjörn Fälldin and the substantial foreign orders for they could also supply an engine for a joint Italian short-haul feeder jet could sale of the Viggen to India. As short-haul feeder jet could show which would "react negatively" to the short-haul feeder jet could show about this order Saab-Scania notched up its biggest foreign orders with the Saab Scania notched up its short-haul feeder jet could have been at least mooted to the Swedish aircraft. The project ticking over Thorbjörn Fälldin and the wespons, the weapons.

Saab-Scania notched up its Swedish aircraft. The project ticking over Thorbjörn Fälldin and the wespons.

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Saab-Scania notched up its Swedish aircraft. The project ticking over Thorbjörn Fälldin and the would "react negatively" to the decision to proceed with the Usaber Swedish aircraft. The project the would "react negatively" to the short-haul feeder jet could have been at least mooted to the Swedish aircraft is powered the Swedish aircraft. The subsonic trail trails are project to the sale of the Viggen to India. As Swedish aircraft is powered the Swedish aircraft is powered to the Swedish aircraft. The subsonic trail trails are project to the sale of the Viggen to India. As Swedish aircraft is powered to the Swedish aircraft is powered to the Swedish aircraft is powered sophisticated weapons Swedes in arms procurement. its export. The Swedish Govern- space technology by reason of

been displaying at international exhibitions, is no more than

for the Swedish air force along- company, Saab-Bofors Missile size. both the defence posture and Italians about the possibility of and finance for a new attack version is under development.

Space Agency. Through the State-owned Rymdbolaget Saah-Scania is involved in computer parts for the Ariane rocket, while Volvo's aero-engine subsidiary, Flygmotor, is working on its combustion chambers. L. M. Ericsson has received order for components to be used

So the Swedish acrospace industry goes on living in a state of uncertainty pending a decision on the B3LA. Whether

> William Dullforce Nordic Correspondent

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# More State money needed

tion for Fokker's F-28.

expects to make a small profit in what is probably its last year Dutchman stands a good chance of being the first European of opinion wants a stronger

Despite notable Dutch success and concern for jobs meant when economic logic

The failure of the VFW-614only 16 of the short-haul jets

jet. Britain has opted to build the HS-146 feeder airliner, which will be direct competi-

Dutch airframe manufacturer, the creation of a unified fuel-saving wing designed by Fokker, has now accepted the German aircraft industry com- Fokker in Germany. failure \_ of its ten-year-old prising VFW and Messerschmittmerger with the West German Boelkow-Blohm (MBB). Talks tively chosen to build the wing listing of the 31-year-old nuclear National Product into ESA pro-Vereinigte Flugtechnische now being held are expected to but if British Aerospace opts Werke (VFW) group and halted lead to an outline agreement by for the Airbus then the construcconstruction of the VFW-614 the end of the year.

of joint operation with VFW. determined that Holland should and demand for the European retain its position as one of Airbus is finally picking up. A only six Western countries with while a large body after the initial MBB-VFW link-Dutch commitment to space simed at Fokker rejoining the the present versions of the Air-

# have been sold compared with The development of a new in May that Air-Anglia, which Signaalapparaten — a Philips a break-even total of 250— version of the Airbus jet, the already flies F-27s, had bought subsidiary—and Fokker. The put strains on the partnership. A-310, would also bring more two of the jets. Fokker also Netherlands Aerospace Insti-

Worried Fokker is worried it will be The good news is that Fokker left out in the cold and is insisting on at least a blocking Fokker in the position of pickshare in the new group. It is a self-supporting aircraft inup, more talks will be held

in cross-border mergers in supporter of a strong European super F-28 and the Govern industry the aircraft industry. It sees failure ment's plans to cut public decision to link up with the to co-operate in Europe leading spending it is questionable VFW group proved an unhappy to the European companies beone. Close Government involve coming merely sub-contractors be found.

ment in the aircraft industry to the big U.S. manufacturers. In view of the check-It was therefore doubly dis porary, it is hoped—to Fokker's Fokker could not switch work appointed by the British deci- co-operation with the German from factories in one country sion to build the HS-146. Before to under-used plant in another stepping down in June in the looking for closer links with wake of the breakdown of the France. The French are appar-Fokker-VFW link, executive ently willing to take a risk-chairman Mr. Gerrit Klapwijk bearing share in the develop-

> represents a challenge to the new aircraft. -28: it signifies a continuation of the belief in purely national aircraft industries n Europe. Fokker has sold 132 F-28s to 35 operators and orders are often only for one or two aircraft Maintaining a spares network for such small numbers is expensive enough without another new aircraft to fragment the market even further, Fokker

After the company's worstever financial result in 1977 prospects are for a return to a small profit in the current year. The Duesseldorf-based central although it has eliminated the holding company made a loss of British Nimrod. DM157.6m (\$79m) in 1977. It of DM18.2m (\$9m) in 1969 but France and Air Inter. moving into such a heavy deficit Fokker's British-born market-

couraging developments for netitor is British Aerospace's Tokker. The company has a BAC One-Eleven. 6.9 per cent stake in the project, producing moving parts for the throughs have already been Airbus wing in Holland and achieved in recent months, parts of the fuselage in Fokker sold its first F-28s in Germany.

now seems certain to lead to consortium has opted for a new

Fokker has also been tentation work would go to Britain, which already builds wings for the B-2 and B-4 Airbus versions. The UK firm might also decide it wants to design a new wing,

ing up only what the major partners do not want. But if Fokker were to get the wing contract this would involve dustry. Fokker now hopes that considerably more investment on the part of the Dutch Government than has gone into new group as a full partner. bus. Given the competing Fokker has been a staunch claims for funds to develop a

aircraft industry. Holland is now was scathing of the HS-146's ment of the super F-28 and even have a motor, the CFM-56, which The new aircraft not only could be modified to go into the

#### Interesting

On the sales side. France offers interesting prospects for Fokker. It has said it will order 12 F-27s for use as trainers by the French Navy if Holland decides on the Breguet Atlantique as a replacement for its fleet of marine reconnaissance Neptunes. The Dutch Cabinet has not yet decided whether to opt for the Atlantique or for the American Orion.

The French have also hinted drew on all its free reserves of they are interested in a mari-DM150m to cover most of this time version of the F-27 and ioss. Fokker's net result has also in the F-28 as a possible shown a pratically unbroken replacement for the ageing downward trend from a profit Caravelles now flown by Air

has weakened Fokker's nego ing director Mr. Alan Buley tiating position in talks with hopes to sell 30 aircraft this MBB and the German Govern year. Talks are continuing with Japan's domestic airways on the Increased demand for the sale of an undisclosed number previously slow-selling Airbus of short-haul airliners. Fokker and the breakthrough in the is offering a stretched version U.S. with the sale of 23 aircraft of the Mark 6000 F-28 which Eastern Airlines are en would seat 100. Its main com-

> Two significant sales break Britain with the announcement

subsidiary.

Holland could be the first European country to put a man

The strength of the country's space activities, while the spin-doubtful. off from space technology is seen as a useful stimulus for companies such as Hollandse

It was claimed that the work to Fokker's plant Sales of recently sold four aircraft to tute (NIVR) is nevertheless Amsterdam-based sales organisa- the new aircraft have been very KLM. This is the first time for worried that not enough is tion was not putting as much encouraging and orders have many years that Fokker has being done now that the initial effort into promoting the 614 been placed by a number of made a sale to the Dutch stages of the spacelab THE PAST YEAR has produced as into the Fokker 27 and 28. European airlines. Until Britain national airline, which normally laboratory and the Ariane for the Dutch aircraft industry decision to take a more active aircraft Fokker's position will go into service with NLM their peak. Lack of agreement will go into service with new interest in the fortunes of VFW remain unclear. The European City Hopper, KLM's domestic within the European Space of better things to come. The new seams certain to lead to consortium has outed for a new interest. Agency (ESA) decisions on new work,

If Holland were to put the into space following the short- same proportion of its Gross physicist Dr Wubbo Ockels for grammes as other countries it a spacelab mission. Dr. Ockels' would have a stronger voice in personal triumph is perhaps not decisions. This would require. surprising considering Holland's however, a doubling in spendstrong involvement in research ing, says NIVR, on which Government, industry, users and research institutes are represented. Whether Holland's cost electronics and aircraft indus conscious Government would tries form a sound basis for agree to raise spending now is

> Charles Batchelor Amsterdam Correspondent

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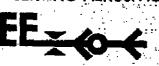
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**ECONOMIC VIEWPOINT** 

# The dollar: no time for despair

THE MARKET'S despairing beginning of its salvation. incidentally financing reaction to the latest batch of This view may seem very ports from their home to roost. In the moral tone which market men love to adopt, dealers talk of the effects of years of improvidence working through now that foreign central banks are no longer willing to finance folly without limit. However, the external value of the dollar is not a moral issue; and a different, possibly immoral analysis points to a very different conclusion.

by the Fed through gross peracquiring reserves for their missiveness and an obsession own sake.

There is no need to believe that the Germans and Japanese before now that excessive were consciously engaged in domestic credit expansion gives covert reflation, that the British agood measure of what is had turned mercantilist, or even wrong, and that the Fed, which that the Americans were has hardly even heard of this consciously trying to drive down measure, misses the point by the value of the dollar. One need only remember that growth of the U.S. money ferent conclusion.

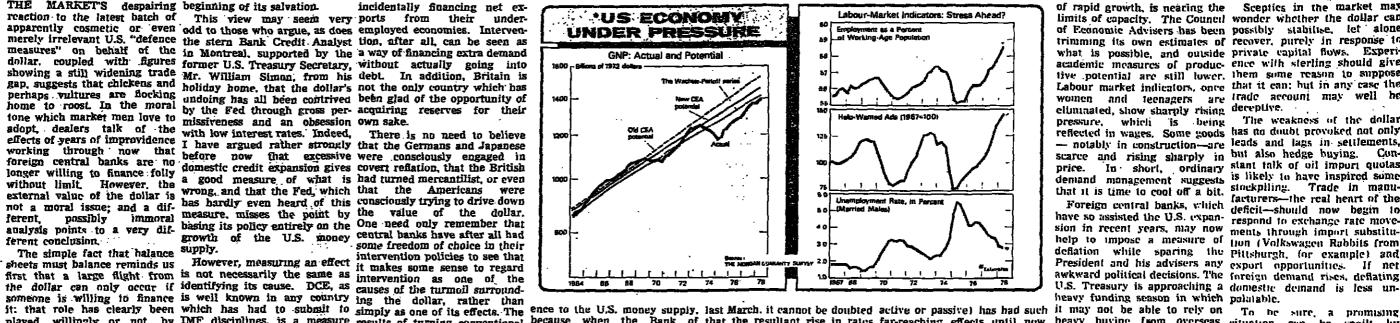
The simple fact that halance supply. played, willingly or not, by IMF disciplines, is a measure results of turning conventional foreign central banks. In the which adds the whole private thought upside down in this England or the Bank of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by foreign central banks. In the which adds the whole private thought upside down in this England or the Bunks of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas situation can be spoilt by England or the Bunk of that the resultant rise in rates far-reaching effects until now, heavy buying from overseas.

apparently cosmetic or even odd to those who argue, as does employed economies. Interven-merely irrelevant U.S. "defence the stern Bank Credit Analyst tion, after all, can be seen as measures" on behalf of the in Montreal, supported by the a way of financing extra demand dollar, coupled with figures former U.S. Treasury Secretary, without actually going into showing a still widening trade Mr. William Simon, from his debt. In addition, Britain is gap, suggests that chickens and holiday home, that the dollar's not the only country which has perhaps vultures are flocking home to roost. In the moral by the Fed through gross per-acquiring reserves for their than which market men laye to

growth of the U.S. money central banks have after all had some freedom of choice in their The simple fact that halance supply.

The simple fact that halance supply.

However, measuring an effect it makes some sense to regard first that a large flight from is not necessarily the same as intervention as one of the



climinated, show sharply rising deceptive. pressure, which is being The weakness of the dollar reflected in wages. Some goods has no doubt provoked not only

18 months up to March they sector deficit across the exw again and capital forms \$800m—frame sectors are considered from the U.S. current account than the U.S. current account which the capital indeed of the particular than the U.S. current account than the U.S. current account the dollar in recent march than the U.S. current account than the U.S. current account than the U.S. current account the dollar in recent march than the U.S. current account the dollar in the domestic wasket.

This is in fact a pretty pulling chestnuts out of fires; There is distillusion with the This rise will assist the turn of intervention that the current account the dollar in the domestic wasket.

The first invest of this story above the more of the Britain was in trouble, the Britain was introuble, the Britain was in trouble, the Bri

of rapid growth, is nearing the Sceptics in the market may limits of capacity. The Council wonder whether the dollar can of Economic Advisers has been possibly stabilise, let alone trimming its own estimates of recover, purely in response to what is possible, and outside private capital flows. Experi-academic measures of produc-ence with sterling should give tive potential are still lower, them some reason to suppose Labour market indicators, once that it can; but in any case the women and teenagers are trade account may well be

- notably in construction-are leads and lags in settlements, scarce and rising sharply in but also hedge buying. Con price. In short, ordinary stant talk of oil import quotas demand management suggests is likely to have inspired some that it is time to cool off a bit.

Foreign central banks, which have so assisted the U.S. expanhave so assisted the U.S. expan-respond to exchange rate movesion in recent years, may now ments through import substituhelp to impose a measure of tion (Volkswagen Rubbits from deflation while sparing the Pittshurgh, (or example) and President and his advisers any export opportunities. If net awkward political decisions. The foreign demand rises, deflating

#### Schedule D taxpayers

From Mr. G. Scotton Sir.—In his letter (August 29) sorted out by appropriate but absence at Aldermaston.

Mr. J. Andrews criticised the undefined safeguards. The Shell is united affected the possibility of a ence analysed only two radio change in the basis of assess-sources in detail and emphasised ment for Schedule D taxpavers. That many other sources would lie stated that it was "simply need investigation before a firm not true that many self-employed pay tax up to 18 Shipping, particularly naval ves months in arrears," and supsets of the self-employed this contention beginned this contention by giving the self-employed the contention beginning.

purposes.
For example tax, in two instal-

ments, on profits of a husiness with a financial year-end on April 30, 1981, would not become payable until January 1 and July 1, 1983, approximately 24 From Mr. J. P. Pickering. months in arrears.

I know, from practical experi- farmers who

# ieldTech!

means blameless for their present plight, having wasted five years before starting their search for an NGL separation manufacturing industry.

Mr. Rosen's remedy of paying side, there may be further scope to increase inflation overall. No one, not even the farmers themever, far more culpable in my selves, would really profit by such riew is the performance of the a policy. I think that Mr. Rosen's remedy difficult. In the Health and Safety Executive in like many other farmers, should the Mossmorran issue, and this cought to be of national concern. Their written evidence to the 1977 Public Inquiry totalled 64 J. P. Pickering.

Dages, of which only 41 pages Orchard Place, Hexham, Their written evidence to the public to serve the farmers.

1977 Public Inquiry totalled by J. P. Pickering.

pages, of which only 11 pages Orchard Place, Hexham, related to the applications in Northumberland, question, in one page on the proposed ethylene cracker, the HSE inspector concluded that there ought to be no unacceptable risk, although he said he had no colleague said that if the NGL plant were designed and coperated to currently acceptable safety standards (a ubiquitious HSE expression), "there will be no intolerable situation" intolerable situation intoposed on local communities.

\*\*MONITO\*\*

\*\*PONITO\*\*

\*\*PONITO\*\* only gives the misleading this was used in industrial application. Whereaston, which is not the cations—most of them very idents within 1km of a was taken at the Atomic Energy of the material-sproducing the case for instant decision by the case for instant in the case for instant decision by the case for instant in the case for instant decision by the case for instant in the case for instant in the case for instant decision by the case for instant in the case for instan

Mosmorran was questionable, ind that they ought to be reliefly found the said of this stems from the applications. The continual time of this stems from the applications case, there are none for the extended for business this stems from the applications case, there are none for the extended for business the end-use industrial partier in two weeks' travel, and draft agreements this stems from the applications case, there are none for the extended for business the end-use industrial partier in two weeks' travel, and draft agreements work within the end-use industrial partier in two weeks' travel, and draft agreements of the seven Bridge.

The HSE gave no consideration and process have make a which field on a prince of the seven were exchanged for business travel, and the industrial partier in two work within the end-use industrial partier in two work within the end-use industrial partier in two work within the end-use in the end-use whether are none for the extended to be reliefly the extended to bear charges. We each know a great ties processors have make a which field on a prince of the extended to bear charges. We each know a processor have been used at Windscale in the provi

Letters to the Editor

On radio bazards, the HSE radiation monitor at the National mer suppliers, but rather to advised the Secretary of State Radiological Protection Board's care their roles in an up-to-date transmitter were resisted there underlines both the importance would be no danger. Any ship obviously attached to the use of complex, and the proper they quoted as a reference analysed out by appropriate but absence at Aldermaston.

Letters to the Editor

Could we begin, perhaps, with the "elevated" section of the "elevated" section of the propose of the propose of the propose of the provide as a reference analysed only two radio sources in detail and emphasised that many other surgests would be the repeated of the use of complex, which can range from advice on the total loss of a bridge.

Linfood Holdings. Sobrane Chrysler's statement rans of the company's plans for Chrysler's statement rans of the importance of the importance perspective. This must be to provide support for the propose of the provide support for the propose of the provide support of the propose of the importance of the importance perspective. This must be to provide support for the propose of the provide support of the provide support for the propose of the limit of the local Radio Port Unit at Harwell. This fact neatly perspective. This must be to provide support for the propose of the limit of the limit of the importance of the perspective of the relevated section of the provide support of the

#### prices

Land

Sir. - In my experience, the I know, from practical experifarmers who are finding the
ence, that many self-employed do going tough are those who missed
in fact have a financial year-end the bus of low land prices of
on April 30, and therefore enjoy only a few years ago. These on April 30, and therefore enjoy only a few years ago. These gold in the considerable cash flow advan-people, many of them modern From Mr. G. Christopher Karas a considerable cash flow advan-people, many of them in the circumstance of Caudie's letter

and vegetables, are the important structure for polymers, items of our diet and of the food. One wonders what he

#### Radiation monitor

months in arrears," and supported this contention by giving tial major significance.

an example of a business which
had a financial year-end on April
5. In this example, it was
indiging a planning proposal of
profits for the year to April 5.
In this example in two
profits for the year to April 5.
In safety must be the over-riding
profits for the year to April 5.
In this example in two
profits for the year to April 5.
In this example, it was
sudding a planning proposal or
to press the Government for a
profits for the year to April 5.
In this example, it was
sudding a planning proposal or
to press the Government for a
gunday trading may 1 suggest
sunday trading may 1 suggest
sunday trading may 1 suggest
the authorities ask shopkeepers
and the end-use industries.

I must be recognised, how
developments are subject to a
sumple economic truth. The extotal to which any innovation is
absorbed in the market place
opinion in comparable proposals
The National Chamber of
the National Chamber of
The National Chamber of
the unit to which any innovation is
absorbed in the market place
depends on the ability and
strength of the end-use industries.

I must be recognised, how
sector and the end-use industries.

I must be recognised, how
sever. Let all concerned with new
developments are subject to a
sumple economic truth. The extotal to which any innovation is
absorbed in the market place
opinion in comparable proposals
The National Chamber of
The National Chamber of
The National Chamber of the end-use in dustries.

I must be recognised, how
sector and the end-use industries.

I must be recognised, how
sever. Let all concerned with new
developments are subject to a
simple economic truth. The extotal to which any innovation is
absorbed in the market place
opinion in comparable proposals
The National Chamber of
the UK to the inadequate export
the National Chamber I feel that Mr Andrews is throughout the UK On my read. seriously under-estimating the ing, they are totally unditted for intelligence of Schedule D tax payers, and their advisers, by assuming that they would arrange their affairs so as to those and the way they fulfil it worst possible date for tax for some financial year-end on the J. R. Sutcliffe.

Trade represents about a quarter of a million shopkeepers, among a million shopkeepers, among a million shopkeepers, among a rich variety of other husinesses this means the UK economy as a mode of the majority want nothing at all to do with any wide-scale extension of Sunday trading. And I believe the same view is held by the interest of the ability and there allowed in that they were explained just why in that strength of the end-users to apply them—in the case of polymers this means the UK economy as a whole.

In the ability and there divising the ing, they are totally unditted for a million shopkeepers, among arch variety of other husinesses and our extended in the case of polymers and previous fill them—in the case of polymers are whole.

In the ability and there explained just with that they will them—in the case of polymers and previous fill them—in the case of polymers.

In the ability and there are the place of polymers and previous fill them—in the case of polymers and previous fill them—in the case of polymer perience suggests the vast a whole.

maintity want nothing at all to the formative years the UK factory impact in Japan.

do with any wide-scale extension plastics processing industry has of Sunday trading. And I believe had to survive on a thin gruet of the same view is held by the markets whose own capacity for with Japan of some leading in-

distributive trades workforce.

Enterprise House, Pack and Prime Lanc, Henley-on-Thames.

#### Planning for polymers

If however, Mr. Dingle refers to demand then it is very d'fficult to see what could be done by the polymer supplier. There is no doubt that in the early years of the polymer industry individual materials producers, through the polymer industry.

he one it is having In 1978 consumption of plastics 1979?

You print a photo in the UK exceeded 2m tonnes, you print a photo in the UK exceeded 2m tonnes, the monitor? This According to the British Plastics the misleading Federation some 80 per cent of From the Managing Director.

The misleading Federation some 80 per cent of From the Managing Director.

Although Mr Miyoshi indicates that in his opinion short-term with it is in his opinion short-term which in the property of the most of them very street of the property o

will aim at encouraging a greater use of his materials and extend their potential by innovation. But it would be wrong to suggest that the polymer supplier should carry the main burden of appli-

trade unions representing the warmout has been sapped by dustrial countries are national economic uncertainty, is it any wonder therefore that there are weaknesses in the UK .. ies processing industry? indeed, might not one argue that its ability to survive and grow at all on this diet is an unrecog-

nised strength. A restructuring of the market for polymers will only grow from the roots of the market itself. The role of the polymer industry.

donations

the Labour Party's research de-partment on company donations to the Conservative Party. The State-sman." In fact, the source of these figures is an article due to be published in the September issue of "Labour Research," the monthly journal of the Labour Brenda Kirsch. 78, Blackfriars iars Road,

# Motorway

London, SEI.

#### Exporting to Japan

10110 # 5		
Ş	m. 1977	(1976)
		(Source
		OECD)
Ú.S	7,321	(4.054)
France		(423)
W. Germany		(1.015)
Netherlands	1,007	(834)
UK	991	(555)

Indeed, Britain's record com-

a considerable cash flow advanced by a lew years ago.

a considerable cash flow advanced by a considerable cash flow and not considerable cash flow and not considerable cash flow advanced by a considerable cash flow and not considerable cash flow and not considerable cash flow and not cash flow pares favourably with that of other industrialised countries.

caused frustration to our ex-porters. Many of these stem Sir. — In Men and Matters (August 21) there was a reference to figures produced by the Labour Party's research de leuked that Japanese industry enjoyed business leaders have acknowledged that Japanese ledged that Japan has to change her industrial structure to mee the new international economic General Secretary of the Labour environment. Your newspaper. Party in a letter (August 24) for instance, has published referred to these same figures as "research done by the New increase imports. We hope that these and other measures will promote a generous growth in imports and not just lead to the

the stockpiling of raw materials, Mr. Newman's description o Research Department, an inde-pendent trade union research term business relations and centre, founded in 1912. understandings in Japan is lerm business relations and understandings in Japan is correct. It is a pity that he did not mention that there has been for many years in Tokyo and Osaka a large body of expatriate British businessmen from our major concerns and the UK trade

Affairs, on A-310 version of European Alrous,
Prince Charles and Dr. David of Common Market Commission Chamber of Commerce Buildings, Owen, Foreign Secretary, attend to consider export tenders for Dundec, 12 Initial Services, Confuneral of Jomo Kenyatta, late President of Kenya.

Prime Minister opens new Publication of Energy Trends, MacDonald Martin Distilleries, Publication of Energy Trends Queen's Dock, Leith, 12, Syltone, Kings Norton, Birmingham.

COMPANY RESULTS

Company

Final dividends: Crouch Group, Edmunds, 12.

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material from a High Street Prontagrint, was launched by a ensuring each shop continues to the shop operator. print shop, whether on a man with considerable experi- increase its business. domestic or business scale, are ence of franchise operations.

in what might be called the ing business. basic printing method, letter. He considers that press, since the days of Caxion, essence of success is a full and able to the licensee. This applies particularly to the continuous relationship with methods used in the small print each licensee, starting with a strong resistance to new ideas, equipment and materials,

. Attempts to introduce new industry have caused consideras great, though less spectacular, the seven years of operation "point of sale" feature is a accounting sales promotion, use customers to prepare activory and has therefore passed largely there is no record of a shop cartion character printer of ancillary equipment, etc.

For the small printer, refusal Mr. Thirlwell claims. to adopt new technology has. An interesting aspect of the pany. Customers are offered practical experience,

static copying machines are now include an architect, a chef, and

in use in most offices. . In recent years both tech-manager. refined, while the skill needed around £10,000 to open a Pronta-to produce good quality print print shoe. This has allowed has been greatly reduced. These the content of the shop is fitted out print price and a guaranteed time based on the shop is fitted out print print shoe. This has allowed been the shop is fitted out print and equipped, a launch came area. to produce good quality print print shoe. This has allowed has been greatly reduced. These the company to expand rapidly when the jub will be ready, the factors, coupled with a new without having to rely on price list.

This has allowed when a guaranteed time paign is organised, after a Plans are already well has been greatly reduced. These the company to expand rapidly when from a standardised for by Prontagrint. The committee Europe. A pilot operation approach to establishing print generating its own funding to price list. shops, has brought about a open new shops. The holder of Typical jobs include letter keep in touch with licensees, and is planned for the Middle revolution behind the scenes in the franchise deals with the heads, business eards, account and provide help and advice. East. The company says that

#### Franchise

found themselves ously printers. People taking a are displayed on the till fronts, retained for future reference. are not, in fact, so very nev - says the idea generally appeals the problems associated with material, standard invoice sets, offset litho printing has been to the "business executive" cash flow are climinated, and if an accounting kit and standard around for a long time in type wanting to go into business helps to maintain a competitive promotional artwork is also ing in transit costs that artwork different forms, and electro- on their own. Typical operators price structure, newspaper advertisement

It all started in 1971 when the owner and operator of the reports.

Because little change training course and continuing with the prospective licensee so look place for some 500 years, with marketing and publicity that the business potential of The lies

able problems. The impact on There are now some 50 shops. The name takes up to 40 per relations, 'product knowledge, the small printer has been just in the Prontagrint chain, and in cent of the window area, and a recruitment there is no record of a shop cartoon character printer of ancillary equipment, etc. in one place and then print i having to close through failure, embodying the "fast and The final two weeks are spent in the shop nearest the distrifriendly" slogan of the com- in an operating shop to gain bution point. One Fleet Stree

> Based on the premise that print customers are not all highly skilled print buyers, but

retail management problems, as ing stationery quantity survey For example, the costs of basic development in Europe could five offset litho-based print shop. As the company collated 500 page documents, and new price structures are created in Birmingham for shops the continuing 10 per All can, be accurately costed suggested, when the retail printing in Dusseldorf by the East, starting in Newcastle-upon- cent royally on sales, it too has and timed. Prontagrant lists margins are beginning to be early 80s.

PEOPLE WHO buy printed Tyne. The company concerned, a strong vested interest in over 200 typical jobs to assist eroded by cost and overhead

Starting a new business, can generally be introduced to rates on paper, ink and other probably unaware of a revolution that has taken place in this first million in the ice cream
period of great stress and the printing adultry in business, and saw no reason

Parl of the printing andultry in business and saw no reason

Parl of the printing andultry in business and saw no reason part of the printing industry in husiness, and saw no reason mental pressure, but in husing takes the form of a bank loan insurance and health schemes both technology and many to why the successful franchising both technology and manage, why the successful franchising a Prontagrint franchise the and/or leasing or hire purchase etc. As well as legal and ment methods he used could not be company says that much of this to obtain the necessary equip-management advice, other back-There have been few changes used equally well in the print- is relieved by the standard ment. But all licensees are up services include relief systems, training, marketing required to have a substantial managers for holidays and ill and management back-up avail, amount of their own capital ness. At present 5 per cent of invested in the business. This the royalty income is used for The town of interest is visited ment for success of the Yellow Page advertising and

The licenson is given a four. By the end of this year there printing has become a highly support, quality control, assist the area can be assessed and week training course. The first should be 75 shops operating conservative industry, with a ance with staff and supply of suitable premises found. The two weeks cover all aspects of in the UK, with total sales top overall design and appearance running a Prontaprint shop ping the £2m mark - a sub of the shop is standardised to from basic product knowledge stantial turnover in jobbin make them instantly recognis- to preparation of artwork printing. Target for the chair simple offset printing, customer is 400 shops,

Shops which business is that none of the free coffee while they wait. The ing manual is supplied for use produces finished artwork for me of "whiener existing licensees were previ-" payment on collection" terms during the course, and is undercut by those using the new Prontaprint franchise have which is a feature of the Pronta- Advice and assistance are given Darlington and 500 copies are processes, and went bankrupt, come from a variety of commer- print system. By insisting on with the purchase of comip-printed in the local Prontaprin The new methods being used eral, managerial and professional payment at the time of collectment, and a package of items shop for distribution to the by successful small printers backgrounds. The company tion the company says most of including till rolls, point of sale plant's workforce just down the

Once the shop is filled out printers serving the Fleet Street pany has regional directors to is already running in Australia right through to raw materials are monitored, well result in print jobs being

Where necessary, licensees Prontaprint obtains group other marketing aids.

Part of the value of such of staff, basic network is that it enable A train- public relations consultance road at Newton Aycliffe.

Benefits claimed include say rather than bulk copies) speed of production—two colours is two days: and a cost saving of per cent compared with

When your senior executives fly over 0,000 miles a year to solve clients problems, that is called service.

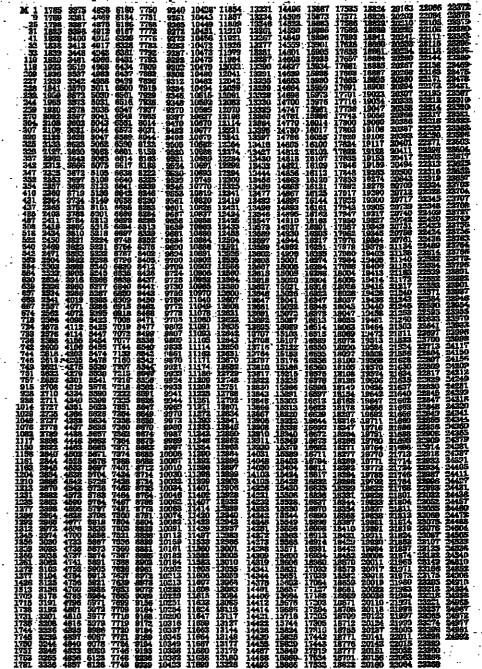
NOTICE OF REDEMPTION

To the Holders of

#### THE PROCTER & GAMBLE INTERNATIONAL COMPANY

61/2% Guaranteed Debentures Due 1982

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Indenture dated as of September 15, 1967, between The Procter & Camble International Company, The Procter & Gamble Company, as Guarantor, and Morgan Guaranty Trust Company of New York, as Trustee, \$1,645,000 principal amount of the above Dependence has been selected by lot for redemption on September 15. 1978, through operation of the Sinking Fund, at the redemption price of 190% of the principal amount Debentures designated for redemption are as follows:



of the United States of America as at the time of payment shall be legal ten public and private debts. Payment will be made upon presentation and surrender of the a putote and private deals. Fashed with a made upon presentation and surregner of the above necessities with coupons due September 15, 1979 and subsequent coupons attached at (a) the corporate trust office of Morgan Gazranty Trust Company of New York, 15 Broad Street, New York, New York 10015; or (b) the main offices of Morgan Guaranty Trust Company of New York in Brussels, Frankfurt, Loudon and Paris; Banca Vonwiller & C. S.p.A. in Milan: Bank Mees & Hope NV in Amsterdam: and Krediethank S.A. Luxembourgeoise in Luxembourg. Payments at the offices referred to fu (b) will be made by check drawn on a dollar account, or by transfer to a dollar account maintained by the payer with a bank in New York City. maintained by the payee, with a bank in New York City.

Coupons due September 15, 1978 should be detached and collected in the usual manner. On and after September 15, 1978 interest shall cease to accrue on the Debentures selected for

THE PROCTER & GAMBLE INTERNATIONAL COMPANY By: MORGAN GUARANTY TRUST COMPANY

OF NEW YORK, Trustee

Dated: August 15, 1978

NOTICE

The following Debentures previously called for redemption have not as yet been presented for

DEBENTURES OF \$1,000 EACH



## electrocomponents limited

#### **1978 RESULTS**

Turnover increased 47% to £33.6m Exports up 39%

Profits up from £4.54m to £7.60m

Earnings per share up from 26.2p to 43.4p

Total dividend 5.05p—the maximum permitted for this year

Scrip issue of 1 for 1 proposed

Whilst turnover has increased by 44% and 47% respectively in the last two years, the company's reputation for superb stock availability and second-to-none service has been maintained and indeed improved.

The increasing use of electronics in industry and our widening product ranges are reflected in the substantial sales increase.

I have no doubt that the current year, which is progressing very well, will show still further profitable development. 77.

R. A. MARLER, Chairman

Copies of the full Report and Accounts for the year to 31st March, 1978 are evailable from the Secretary, Electrocomponents Limited, 37-45 City Road, London EC1P 1HX.

Britain's biggest electronic components distributor

# BOC profits down £12m to £48m for nine months

WITH group third quarter profit depressed by poor results of the ferro alloys business of the U.S. subsidiary Airco and of the metals businesses in Europe and Africa, pre-tax profit of BOC International fell from £60.4m to £48.8m in the nine months to

There was also little sign of improvement in the level of activity of the group's other main businesses in Europe, the direc-

After six months, pre-tax profit was down from £36.5m to £26.2m.
Adjusting for last September's rights issue, carrings per £1 share are shown to have fallen from 8.70p to 5 60p.

The results of Airco, which became a wholly-owned sub-sidiary in May have been concolidated for the first time in the nine-months' figures from October 1. 1977. In the corresponding period and for the year to September 30, 1977, group results

September 30, 1977, group results included only 34 per cont of Alreo's pre-tax profit.

Of the 542m (£15.7m) contribution to trading profit to exclude that part of Airco's profit which is attributable to outside which is attributable to outside shareholders in the period before Airco became a subsidiary.

Sterling strengthened only marginally over the three months to



extended progressively to cover further classes of assets (including those of Airco) so that most of the group's assets are now shown in the balance sheet on a

The depreciation arising from the revaluation of further classes of assets during the current year (including those of Airco) is estimated at £5m for the nine months, which has been charged in arriving at the group trading



# Pearl life premiums well ahead

WITH ITS, underwriting loss rapid growth is however expected to a better the personal properties of Definition of Part Assurance Juney from the State of the Feet and the Part Rapid Interest and the Part Rapid Interest Rapid Interes

King & Shaxson Portfolio II Capital Offer

Trading profit

interest

depreciation

Pre-tax profit/(loss)

Earnings per share

Ordinary dividends

per share

**Group Results for 1977/8** 

ume, and the profit came after group overheads of £24,000 (£22,000).

Directors are confident that factory increase.

The interim dividend is stepped up from an adjusted 2,102390 and the profit came appears to 2.5p, and directors intend applying to the Treasury to take full advantage of the representation of the recent relaxation of the recent relaxation of the recent relaxation of dividend controls. They expect that the increase in profits. They recent the result of the recent relaxation of

easily offsetting a £93,000 decline of £1.93m and rental income of from other sources, taxable profit of London United Investments of London United Investments climbed 30 per cent from £1.24m to £1.61m in the June 30, 1978 and from expending its other interests.

Turnover for the period was £8.06m compared with £6.93m last time, and the profit came after group overheads of £224,000 (£210,000).

Directors are confident that the figure of £1.03m and rental income of £9.500 (and a prospective p/e of 72.

Among the group's insurance in respect of the 13 months to for the group's insurance in respect of the 13 months to for the group's of the group's of the first half of 1978. For all 1977, profits rose by \$8 per cent to a peak £959,000.

First-half profit was struck after interest of £218,502 (£245,464) and (£253,000), leaving net surplus figures but full provision has been made for sums totalling £115,000 and the group's are confident that take full advantage of the valvent of the period was figures but full provision has been made for sums totalling £115,000 and the group's are confident that take full advantage of the valvent of the period was figures but full provision has been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been consolidated in 1977, and the group's specialisation in excess been c

# The turniver total comprises (ILI3m) export. The unreactited order book at the second sk months, and the second sk months are a turnive total conditions of the second sk months, and the second sk months, and the second sk m

347

(229)

1.5p

0.9p

James Hartley Chairman

3.8p

2.5p

"Sales for the first quarter are well ahead of those

of a year ago and I remain confident that there will

Gopies of the 1977/78 Report and Accounts can be obtained from the Secretary, Dearne Mills, Derton, Barnsley S75 5NH.

be a rewarding outcome for 1978/79."

loss (not consolidated) in the period, but the Board anticipates it will start to earn profits in the last quarter of this year.

#### **HAZLEWOODS** (PROPRIETARY)

The large reductions in directors' shareholdings at Hazlewoods AGAINST A background of very 1977 was 2.265p.

pany	Page	Cel.	Сотрапу	Page (
te	33	5	Howden Group	. 33
nti.	33	•••	Johnson Matthey	. 33
****	33	- 6	London Utd. Inv.	33
t-Roadstone	33	6	Nu-Swift	33
vîncial	33	-4	Pearl Assnce.	33
inti.	34	~ <sub>1</sub> -	Quick (H. & J.)	33
Ansbacher	33	4	Slough Estates	33
rods Hidgs.	33	5	Weir Group	34

INDEX TO COMPANY HIGHLIGHTS

# First quarter drop at Johnson Matthey

the group trading

TRST QUARTER profits at also being affected by the overcapacity in petroleum refining in

Insurance side lifts London United

The directors consider the full year results mark an important stage in the progress towards a return to full profitability and say that this improving trend has continued during the current year.

WITH INSURANCE activities absorbing £214,000 (£180,000):

WITH INSURANCE activities absorbing £214,000 (£180,000):

With trading contribution from £1.27m to £1.76m and end properties with a book value easily offsetting a £93,000 decline of £1.03m and rental income of Among the group's inversees in respective \$4.5 per cent, and Among the group's inversees of the first half of 1978.

The directors consider the full year important of £1.000 (£180,000):

The managers of the new stocks will form the core investment is £1.000.

The managers of the new fellow and form £1.27m to £1.000 (£180,000):

The interim dividend is to the properties total was surplus of £1.000.

The directors consider the full year important of £1.000 (£180,000):

The interim dividend is to the properties total was surplus of £1.000.

The directors consider the full year important of £1.000.

The interim dividend is to £1.000.

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The interim dividend is £1.000.

The discount house £1.000.

Here the minimum investment is £1.000.

The interim dividend is £1.000.

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The discount house £1.000.

Here the minimum investment is £1.000.

The interim dividend is £1.000.

The

## Slough Estates expands in healthy UK market

tors' shareholdings at Harlewoods (Proporietary) last year were in encouraging UK demand, particunection with the share placing larly at Slough, for factories and Slough, Aberdeen, Aylesbury, in April 1977. This was not warehouses, Slough Estates Birmingham, Carlisle, Reading, explained in yesterday's report on achieved further growth in the group's prospects.

As known, following the reverse profit moving up from £3,148,000 takeover of two private pickle and beetroot groups, Ossett and Bumber, Hazlewoods came back dividend of 1p (0.75p) the directors to the market early last year. At tors say they remain confident the same time there was a plactic that the outcome for 1978 will (£1.5m) leaving the net balance ing of 948,000 shares on behalf of exceed the peak £6.97m attained higher at £2.19m (£1.7m) for stated frumber.

## ISSUE NEWS AND COMMENT

# BTR rights to raise £24m -plans for dividend boost

FOR THE third consecutive year, BTR, engineering group, is making rights issue, this time to raise 224.1m. Terms are one-for-seven at 283p compared with yesterday's 240p in the market, up 7p on the

Along with the issue comes a dividend forecast of a 30 per cent rise this year to 11p gross and half-year results (to June 80) showing pre-tax profits of £17.9m against £13.4m. The interim divi-

The cost of the Hamilton and Lindsay acquisitions was covered by cash of \$9.8m (£5.3m) but the of BTR industries . . . 30 larger Worcester bid has meant increase in dividend forecast. Sir David Nicholson, chairman and borrowings

See Lex

# Compensation

compensation.

Dealings start today.

#### Howden £2.4m cash call

Howden Group, the Glasgow engineering company, is proposing to raise 12.4m from shareholders by way of a rights issue.

Terms of the issue are one-for-four at 55p each. In the market the shares closed at 84 p.

The rights is conditional upon shareholders' approval for an increase in the authorised capital at a meeting called for Septemat a meeting called for Septem-

at a meeting called for September 13.

The directors state that the continued growth of the company's business both at home and overseas will require extra capital. Against this background they believe that an issue is desirable if the company is to maintain a "satisfactory relationship between stockholders' funds and borrowings."

36% this year of 4.7p per share—an increase of 15 per cent.

(£23.3m).

About £9m of the rights proceeds will be used to repay part of the \$43.5m loans while the remainder will be used for future expansion.

The rights document shows that on June 30 the company had outstanding borrowings of £36m and there was cash and short term deposits of £14.1m. Since then the loans relating to the Worcester on September 4.

would have been higher by £1m. For the year as a whole growth in pre-tax profits should continue as to why it is making this issue, but with a rise in its share price profits should also benefit from the employment of the proceeds of the rights issue.

The issue has been underwritten by E1m.

For the year as a whole growth to satisfactory and future but with a rise in its share price profits should also benefit from the employment of the proceeds of the rights issue.

The issue has been underwritten by E1m.

For the year as a whole growth to satisfactory and future but with a rise in its share price profits should also benefit from the employment of the proceeds it appears to be taking advantage of the market. But evidently growth both at home and almost will require financing and in particular the prospects in Canada on September 4. cash will be put on deposit. Lest April's balance sheet showed borrowings of £12.7m and on the other side of the coin there was cash of 57.3m, Shareholders' funds

## THE WEIR GROUP LIMITED

INTERIM STATEMENT Results for 25 weeks ended 23rd June, 1978

Subject to Audit CONSOLIDATED PROFIT AND LOSS ACCOUNT

	25 weeks to 23rd June 1978 £'000s	25 weeks to 24th June 1977 £000s	52 weeks to 30th Dec. 1977 £'000s
TURNOVER	T 4003	£ 0003	2,0003
The Group	87,542 	81,380	160,432
PROFIT BEFORE INTEREST AND TAX			
The Group	5,236	5,392	10,722
Associated Companies	540	576	1.217
- • •	5,776	5.968	11,939
Interest payable less receivable	7,260	1,438	2.816
PROFIT BEFORE TAX	4,516	4,530	9.123
Estimated Tax	1,800	1,900	3,197
PROFIT AFTER TAX	2.716	2.630	5.926
Profit attributable to Minority Interests	85	141	188
PROFIT BEFORE EXTRAORDINARY ITEMS	2.631	2,489	5.738
Extraordinary Items: Add (Deduct)	359	(158)	(2,744)
PROFIT ATTRIBUTABLE TO			
THE WEIR GROUP LTD.	2,990	2,331	2,994
EARNINGS PER SHARE	10.60	10.7-	73.0-
ENVIAGO LEG SIDAGE	10.ep	10.0p	23.0p

INTERIM DIVIDEND An interim dividend of 1.8634p per share (1977: 1.694p) will be paid to Shareholders for the 52 weeks ending 29th December. 1978. Payment, absorbing £465,000, will be made on 8th J.nuary. 1979 to Members on the Register at close

of business on 4th December, 1978. TRADING AND PROSPECTS Profit before tax for the first six months of the year was virtually unchanged from that earned in either half of 1977. This result was achieved against a background of difficult trading conditions, particularly for our foundries where profits were

adversely affected by the lowest level of United Kingdom demand experienced for several years by the steel casting industry. However, our main engineering subsidiary, Weir Pumps Ltd., performed well and good progress was made by Weir Westgarth Ltd. in their programme of desalination plant construction.

As predicted at our Annual General Meeting, the incidence of contract completions should lead to improved profits for the second half and it is therefore expected that 1978 as a whole will show an improvement on the results of the previous year,

The Weir Group Limited Cathcart Glasgow G44 4EX

AFTER INTEREST lower at larly for the group's foundries same as last time with the UK \$11.28m, against \$1.44m. Weir where profits were adversely Polypac company suffering a Group maintained taxable profit affected by the lowest level of further loss and Weir pumps on for the 25 weeks to July 23, 1978, UK demand seen in the steel the back of buoyant restricts of at £4.52m compared with £4.53m casting industry for several years, last fine.

As predicted at the annual sidiary. Weir Pumps, performed meeting the incidence of contract completions should lead to improved results for the second gramme of desalination plant. The directors, therefore, construction.

Like main engineering subsubness, turning in profits of from the desalination side reflect well and good progress was made the higher work load and the by Weir Westgarth in its programme of desalination plant. The directors, therefore, construction.

haif. The directors, therefore, expect the current year as a whole will show an advance on the record £8.98m profit seen for the half-year by the engineering group was ahead to £87.34m (£8138m). Tax took £1.8m (£1.9m) leaving earnings almost halved at £1m with second balf. Foundry profits have per 25p share 0.6p belter at 10.6p, and the net interim dividend is casting, still low—the value and the second to £8630 (£894p). The earth-moving equipment indusraised to 1.8643p (1.894p). The earth-moving equipment indus- (based on last year's low tax final last year was 3.509p. tries have been the most charge) of 4.6 (against a sector. The result was achieved in diffi- depressed customers. Elsewhere average of just under eight) and cult trading conditions, particu- the picture has been much the yielding a prospective 7 per cent.

Davy Intl. orders at £1.24bn THE CURRENT order book at that demand will be restored to £48,15m, with the balance sheet Davy International is £1,24bn and former levels for some time, total ahead from £99.84m to prospects are quite good: Sir John Zimmer and Davy Powergas of £114.51m.

prospects are quite good: Sir John Zimmer and Davy Powergas of £11.51m.

Buckley, the chairman says, but Cologne will in future operate as the sluggish world economy one company. Germany is now shown reduced to £21.67m by addicantinues to make the winning Davy's highest cost centre, but tional depreciation of £2.22m and Sir John is confident the cost of sales of £1.99m, offset by a confident that it will be the challenge for higher levels of the cost of sales of £1.99m, offset by a challenge for higher levels of the challenge for highe

group's future success, and says for further successes in obtaining • continent
this will require a presence large contracts.
Through association in some The equipment design and Davy International exudes confithrough association in some further countries and, as opportunities allow, acquisition in others.

Despite the uncertainties there is every reason for believing that the company will continue to make good progress.

It is continue to make good progress.

It is every reason for believing that the company will continue to make good progress.

It is continue to make good progress.

It is continue to the continue to make good progress.

It is continue to the continue to make good progress.

It is continue to the continue to make good progress.

It is continue to the division of contradiction may be explained the year by the acquisition of contradiction may be explained they are the group will book new only trouble spot, and immediate business, with the order load to the progress. Of the order book, the enginering and construction division — which will be known as Davy factory profits until manufacturing optimistic about its prospects of industry becomes more active but caining further industry but cannot be active but cannot be active but cannot be active b

International following the industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the proposed change of Duvy's name industry becomes more active, but gaining further large jobs in the countries like Brazil and Venezuela, and is negotiating over a £50m project in China. Meantime several of last year's problem areas have been the profit reported for the March 31, at £47.13m (£32.98m), with bank subject of management attention, belong the profit of the March 31, at £47.13m (£32.98m), with bank subject of management attention, which the loss-making man-made group, has acquired Sumbeam, which the group, has acquired Sumbeam showed net tanging of the group's first major move of its own cash of the profit in the group's first major move of the shares depressed and as it is not expected fifst.64m and net current assets at yield 5.8 per cent. depressed and as it is not expected £64.64m and net current assets at yield 5.8 per cent.

**BOC** International Ltd

Airco became a wholly owned subsidiary in May 1978. In the results for

the nine months to 30 June 1978, shown below, Airco has been consolidated as from 1 October 1977. The results for the nine months

are therefore on a basis different from that of earlier periods when Airco

Group profit, unaudited, for the nine

1.10.77

30 6.78

£ million

917.0

49 1

85.7

2.8

38.5

A B Nine months :

1.10.76

30.6 77

£million

4156 83.5

26.0

67.5

17.7

75.2

1.10.76

30.9.77

£ million

670 6

35.7

78.8

23.0

101.8

months 1.10.77 to 30.6.78, was:-

**BIDS AND DEALS** 

# Dixons Photographic withdraws Sea-bed mining from Holland and Belgium

BY CHRISTINE MOIR

concessions in Belgium-to Holland's largest retail chain. Vroom and Dreesmann Nederland.

V and D is to pay £2.63m for the Dutch chain which has net capital of £2.9m owed by the subsidiary to the group. Yesterday, Mr. Stanley Kalms, Dixons' chairman, said that the

Dixons' chairman, said that the sale would release some £51m have an effect.

Sept. 1

Working capital for the group.

He admitted that the Dutch company had never produced a reasonable return since it was savile (J.) Gardon Sept. 13

Fig. 25

Fig. 3

Fig. 4

Sept. 12

Fig. 4

Fig. 3

Fig. 4

BOARD MEETINGS

The following companies have notified dues of Board meanings to the Stock over in 1976. Profits PROSPECTS FOR negotiating an at Westons have been steadily international regime to control arrangements for mining, at Westons have been steadily international regime to control arrangements for mining, at Westons have been steadily international regime to control arrangements for mining, at Westons have been steadily international regime to control arrangements for mining, involving charges on the private seached mining by the end of the sea-bed mining and the sea-bed mining by the end of the sea-bed mining b

also admitted to problems

ceutical and toiletries industries. Mr. Philip Case, group financial

profits of not less than \$900,000 £4.9m). (£464,000) for the current year. The

the group's plastic container and closures activities and provide day dispatched to shareholders its. The fixed assets of Marier capacity in the U.S.

**IBSTOCK—DETAILS** 

Erskine House leaves "Chorus Line"

Erskine House Investments is of the sale will be used as working came out at £184,731 (£88,568).

Erskine House Investments is of the sale will be used as working pulling out of its interest in one capital.

Comparative figures include of the current top West End stage On completion of the sale Mr. Schous, "Chorus Line." The director of Erskine.

The director of Erskine.

White Ltd. the theatrical and film year to March 31, was ahead from Calcuttal, the Rocky Horror Show and the Strage of the Strage o

White Ltd. the theatrical and film year to March 31, was ahead from production company behind the £179.796 to £250,849 before tax of and Monty Python and the Holy show, to Circle Investments, a £57.403, against £92.801. Turnover Grail, became a wholly owned Cayman Islands corporation, for jumped £6.59m to £15.96m. Of subsidiary in 1974. Though it this £12.74m (£6.12m) came from the bureaux de change, acquired the bureaux de change, acquired the bureaux de change, acquired the present a large proportion of the parent group's turnover (£30,171) (£70,780) from net deal-over its profit record was erratic. As known, Erskine acquired ings and other revenue.

nature of the profits of the to 1.91072p (1.72p) per 25p share received an approach which may industry, the sale is in the best by a final of 1.25072p. After lead to an offer. Its shares rose interests of Erskine. The proceeds minorities, attributable surplus 5p yesterday to 27p.

the company is forecasting consideration of \$9m (about tax profits of \$1.78m, unaudited its of not less than \$900,000 £4.9m).

For an audited five month period 2464,000) for the current year. The deal has been financed by ending May 31, 1978 Marion has At the end of last year two loans aggregating \$9m of shown taxable profits of \$505,000.

in the group's first major move into manufacturing in the U.S.

Sunbeam specialises in the manufacture of child-resistant plastic fasteners for containers used by the chemical, pharmaceutical and toiletries industries.

Since with control of the balance of the

closures activities and provide day dispatched to shareholders its The fixed assets of Marion, cope with its first manufacturing letter detailing its first major which include seven brick plants purchase in the U.S.

Packaging interests account for around half group sales which in the year to July, 1977, rose to Last year Sunbeam earned presubstities of \$336,056 (£173,000)

Last year Sunbeam earned presubstiting of \$306,056 (£173,000)

wholly-owned U.S. Shouldry called histock Corporation. The balance of \$5m has been borrowed by the new subsidiary from European American Bank.

A pro-forma balance sheet, as at December 3L 1977, shows that the Marion acquisition would have increased group loan capital from £4.5m to £9.5m, and fixed assets from £18.2m to £30.5m.

The fixed assets of Marion, which include seven brick plants increasing Details of time any sea-bed treaty would countries to work towards national laws to cover sea-bed mining.

MINING NEWS

# cross-currents

BY PAUL CHEESERIGHT

started five years ago. In large profits from it were £348,000 but last year they dropped to £225,000 and he especied they would fall again this year. In terms of turnover the Dutch company last year represented a third of Disons total overseas would have the exclusive agency operations but only contributed 6 per cent of overseas profits. The profits to Chinon in the announced the sale of two of the mainder came from Dixons' sole remainder came from Dixons' sole in the U.S. of the Chinon range of distribution rights in Europe and distribution rights in Europe and optical producers.

CAI pays £3m for U.S. manufacturer

millions of guilders "in its severe stores.

The previous month, A. G. Stanley Riddings reported losses grand coulties holding nickel, mannounced the state of two of the common heritage of mankind. Sea Confarence, denied that common heritage of mankind in the needs of the private sector to manufact the needs of the private sector of the needs of the private sector of the needs of the private sector of the need also to proveed by the fear of subject to appropriation or the military of the developing world that sea-bed mineral will depress the prices of family until an international treaty had been agreed, in face of the need also to proveed by the fear of malkind.

CAI pays £3m for U.S. manufacturer

CAI pays £3m for U.S. manufacturer

millions of guilders "in its severe months, A. G. Stanley Riddings reported losses grand cobalt—state of the Loss of the common heritage of mankind. The problem is how to reconcile the needs of the private sector of the need also to prove the plant of the developed world, the needs of the private sector of the sale of two of the need also to prove the plant of the developing world that sea-bed were the CAI pays £3m for U.S. manufacturer

CAI pays £3m for U.S. manufacturer

The problem is how to reconcile the needs of the profits to obvoyancy in the Dutch hose who have the resources and technology to exploit the sea-bed. Here were the profits to appropriation or the m

BOARD MEETINGS Westons the chemists which PROSPECTS FOR negotiating an The second covers financial profits profits prospective for mining.

The U.S. maintained that there is no treaty and no customary international law which prevents a state or its nationals from using the resources of the sea-bed outside areas of national purisdiction at the

## Quebec doubts about asbestos takeover

There is some confusion at stretch out the pre-negotiation Asbestos Corporation, the second period. about the intentions of the Quebec Government for a take-

over. Sources at the Corporation cannot confirm the statement last week by Mr. Jacques Parizezu, the provincial Finance Minister.

Asbestos Corporation is 54 per cent controlled by General operated by Benguet Consolidated Dynamics of the U.S., which does under contract to Consolidated. not want to sell. The sources said The reports have been neither that nothing had changed for confirmed nor denied by the several months and that there had parties involved, but have gained been no word either from the currency because of recent earn-Quebec Government or from ings performances.

Consolidated gains most of its increase of the content ing negotiations.

intention to takeover the company mine which came to production several months ago. It has received a valuation of the business, prepared for it by Kidder Peabody, the New York investment house.

It has reverse particle capacity last year. During the 1978 first half its net earnings slipped to Ps 21.06m (£1.48m) from Ps 23.8m in the investment house.

upon the approval of the trustees of Erskine's convertible loan stock.

Net asset value of Michael White at March 31, this year was met dealings and other revenue.

1203.444 and pre-tax profit for 1977/78 was down from £31,189 to £23,592.

The Board believes that, having loan stock conversion in Septem-regard to the capital requirements of White's and the unpredictable nature of the profits of the capital requirements because of the capital re

#### CONSOLIDATED TO MAKE MOVE

Consolidated Mines, the Philip pines group, is reported to be planning a takeover of operations that takeover negotations will start shortly, reports Robert in Zambales Province, reports Leo Gobbens from Montreal Gonzaga from Manila.

The property is presently operated by Benguet Consolidated

income from the chromite property although it has a copper

same period of 1977.
On the other hand Benguet's net investment house.

However, it is thought in the profits in the 1978 first half at industry that the Government may be having second thoughts about its position despite Mr. Although the increase was Parizeau's statement that it intends to go ahead with a takeover. It is believed that the price for a takeover might be so expensive that the Government would be prepared to settle for participation:

Industry analysis point out that a Government takeover of Asbestos Corporation would create no new jobs. If the Government did relax its stand on a takeover then it might then participate in Brinco's Abltibi receives 25 per cent of the excess General Dynamics is content to including capital expenditure.

# Opposition to Oliver Rix merger

A GROUP of small shareholders August 21 Charles Ernest Turton, interested in 255,000 (12.75 per in Oliver Rix, the British Leyland Norman Ashton Hill and Richard dealer, is mustering opposition to Charles Turton RLG account sold the proposed merger with 276,393 shares, R. L. Greensmith, has sold 25,000 shares. Marks, director, has sold 25,000 shares. Marks is a director, beld beneficial interest at 43p as follows: On August 21 Ronald in Gwent, who is spearheading Leivers Greensmith sold 215,620 the opposition, last weekend shares, also on August 21. Mrs. circularised shareholders owning Muriel Daisy Greensmith, wife 10,000 or more shares and now claims "verbal support" for his shares. also on August 21. Mrs. attempt 10 quash the bid from shareholders representing shares. Ben Williams and Co. — Miller, attempt 10 quash the bid from shareholders representing Rayner and Haysom has bought director, has sold 14,000 "H" (8,6 per cent).

Bank of Scotland — Kuwait Inv-Currys—A trust of which D.

approaching 10 per cent of the equity.

Mr. Wakely said yesterday that the dissidents proposed to hold a meeting next week.

Although the group's main aim is to keep Rix independent while it continues to recover profiting it continues to recover profit shillty, it is also incensed at what it regards as the poor terms offered to Rix's shareholders by comparison with Manchester's.

In particular his letter asks why Manchester is offering its shareholders a double dividend this year only if the offer goes through. Mr. Wakely said that this indicated that the extra payment would come as a result of Rix's contribution to the new company's profits.

Automotive Products—Camway course of his investment policy.

(8.6 per cent).

Bank of Scotland — Kuwait Investment office has acquired in further 12,500 shares of which D. Curry. chairman, is trustee, sold making total 1,991,500 (6.175 per cent).

Sun Life Assurance Society — Francis Industries—Temple Bar in 450,000 shares (6.18 per cent).

Bridgend Processes — A. P. Investment Trust is beneficial owner of 2,195,000 shares (18.1 per following purchase of 300,000 under of 2,195,000 shares making total 1,000 there walker—Daily Telegraph shares and acceptance of recent rights issue, now owns 3m shares.

Automotive Products—Camway cent).

Automotive Products—Camway cent).

The productor, has sold 14,000 miles in the ordinary course of his investment policy.

Curry.—A trust of which D. Curry. chairman, is trustee, sold making total 1,991,500 (6.175 per feet).

Francis Industries—Temple Bar in 450,000 shares (6.18 per cent).

Godfrey Davis — Rothschild owner of 2,195,000 shares (18.1 per feet) for the course of sold making total 1,991,500 (6.175 per feet).

Francis Industries—Temple Bar in 450,000 shares (18.1 per feet) for the feet of the fe

Bifurcated Engineering: Britan-nic Assurance has bought 168,000 Shares making total 848,000 (11.27

Initial Services: London and Manchester Assurance Company and subsidiaries own 107,000 5.95 per cent cumulative preference shares (26.75 per cent). Forward Technology Industries: Following the sale between June 13 and 26 by Estate Duties Investment Trust Industrial and Commercial Finance Corporation now interested in 677,500 shares

this indicated that the extra payment would come as a result of Rix's contribution to the new company's profits.

Automotive Products—Camway cant). Throgmorton Trust—D. E. Investments has bought 100,000. Throgmorton Trust—D. E. Shares. E. G. Barratt, director, is a director of Camway.

SHARE STAKES

Rothschild Investment Trust:
Shield Trust, a subsidiary of N. M. Rothschild and Sons, now holds 1,911,692 ordinary shares and 1,287,124, 3.5 per cent convertible cumulative redeemable preference shares.

#### DIVIDENDS ANNOUNCED

I Matiai octivos. Hondon and			vate	COLLG-	TOTAL	Total I
Manchester Assurance Company				ponding		iast
and subsidiaries own 107,000	pa	yment pa	yment "	div.	year	year
5.95 per cent cumulative	BTR int.	5.5§ N	ov. 27	4.2°		8.4*
preference shares (26.75 per cent).	Cement Roadstone int	1.52 O	et. 7	1.17*		2.98=
Forward Technology Industries:	Freking House	125 O	ct. 20	1.73	1.91	1.72
I YOU OWING THE SALE DETWEEN JUNE	Crinnamode	200+ N	ov. 1		4.64	3.58
119 and 30 by Estate Duties in-	Grovebell Group	0.5 O	ct. 18	0.5		1 1
i rezmient tinžť monztinn sud	London Hild, Inv int.	2.5	ct. 19	21*	<del></del> -	421*
Commercial Finance Corporation	Longho		ct. 3	2.33	·	6.55
now interested in 677,500 shares	Nu-Swift int		et. 3	0.66	_	1.57
and Estate Duties Investment	Pearl Assurance int.		et. 13		_	12.59
Trust in 205.833.	H & I Onick int		ct. 2	0.8*		1.65*
Bonser Engineering: N. Ashton	Slough Relates		ct. 16	0.7a	_	2.27
Hill, a director, sold shares at 43p	Thomas Robinson int		ct. 12	0.74	-	3.429
ns follows in non-beneficial	Thursday int		_	0.2	<u> </u>	0.68
capacity as trustee: On August	Wale Cross int		m. 8	1.69		5.2
18 Charles Ernest Turton and	Dividends shown mence ner			where of	nerwise :	Stated
Norman Ashton Hill FB1 account	2 Faultraiont after offer	ing for seri	D issue.	†On ca	pital inc	reased
sold 1,252,330 shares. Also on	by rights and/or acquisition	n issues. 🖈	Gross t	hroughou	it 635	o final
August 18, Norman Ashton Hill	forecast fineludes addition	mal 0.0401p	for tax	change.		
and Charles Ernest Turton FB2 account sold 950,707 shares. On		_				- 11
account sold 950,707 shares. On				-	<u> </u>	'

#### MONSANTO COMPANY AND SUBSIDIARIES Statement of Consolidated Income

(Dollars in millions, except per share) Three Months Six Months

	•		. En	
	Jun 1978	e 30. 1977	Jun 1978	e 30, 1977
Net Sales				
Cost of Goods Sold	885.1	819.4	1,788.5	1,690.6
Marketing and	÷			
Administrative Expenses				
Technological Expenses	42.0	4L0	95.4	59.I
· · · · · · · · · · · · · · · · · · ·	1,037.3	955.1	2,105.1	1,978.6
Operating Income	147.7	167.0	422.6	-449.6
Income Charges (Credits):				
Interest expense	23.5	· 21.9	44.9	48.6
Other-net	·· (11.7)	(3.9)	1.2	(5,7)
	: 178	18.0	46.1	37,9
Income Before Income Taxes	135.9	149.0	376.5	411.7
Income Taxes:		<del>,</del> -	2 1	· <del></del>
Current	41.5	44.7	144.9	
Deferred				
	59.8	67.5	164.7	1\$23
Net Income	\$ 76.1	\$ 81.5	\$ 21L8	\$ 29.4
Earnings per Common Share: Primary	\$ 2.09	\$ 2,21	\$ 5.80	s 622

Fully diluted ...... 2.07 2.18 5.74

عدامن الرصل

16 7 19 9 Africa Americas 3 6 15 1 32 148 208 88.5 75.2 101.8 **GROUP TRADING PROFIT** 20.4 101.8 19.6 75.2 14.8 **68** 1 19.3 82.2 35.1 **GROUP PROFIT BEFORE TAX** 48 8 47.1 7.7 24.4 29 1 18.1 234 39 4 **AVAILABLE FOR DISPOSAL** Caminos per share (adjusted for Rights Issue) Condensed balance sheet, unaudited as at 30 June 1978 30 6.78 31 3 73 noillim 1 £ million £ million 196 121 19.3 7120 6191 11153

Shareholders' funds ! hnority shareholders" interests Deterred taxation and capital grants Net borrowings and tinance leases 809 4 401.4 Fired assets Associated companies and 97.3 INVOSTRUE UTS 1520 Working capital to cluding 120.4 bont, balances and short term loans) 2819 126.7 619.1 1.1158 7120

Group sales

Depreciation

Operating costs

Group share of associated com-

**GROUP TRADING PROFIT** 

panies profits, less losses

1) The results of Airco have been accounted for as follows:

(a) In column A, as a subsidiary company. Group sales and trading profit therefore include 100% of Airco for the full nine months. Of the trading profit of the Americas (£42.0 million), £40.9 million relates to Airco.

(b) The Airco adjustment eliminates that part of Airco's trading profit attributable to outside shareholders in the period before Airco became a subsidiary.

(c) In columns B and C, as an associated company. Group results therefore include 34% of the profit before tax of Airco for nine months and twelve months respectively. 2) The Group's third quarter profit was depressed by the poor results of the ferro alloys

business of Arico and of the metals businesses in Europe and Africa. There was little sign of improvement in the level of activity of the Group's other main businesses in Europe. 2) Sterling strengthened only marginally over the three months to 30 June 1978 and the chection Group profit before tax was not material.

4) The Group's policy includes revaluing assets on to a replacement cost basis and charging depreciation on the revalued amounts. The practice has been extended progressively to cover turther classes of assets uncluding those of Airch) so that most of the Group's assets are now shown in the Balance Sheet on a revalued basis. The degreciation arising from the revaluation of further classes of assets during the current year (including those of Aircol is estimated at £5 million for the nine months, which has been charged in irriving at the Group trading profit of £88.5 million.

Further copies of this report may be obtained from the Secretary, BOC International

Ltd. Hammersmith House. London. W6 9DX. Tel. 01-748 2020.

# The Marketing Scene

# Skol tonic for Masius

**建** 

IN THE FIRST significant account change of what could prove a record autumn for hirings and firings, Allied Breweries has switched its £2m Skol lager account out of BBDO and into D'Arcy-MacManus and Masius, writes Michael Thompson Noel.

Masius has had a quiet year to date, but joint managing director Mike Johnson says the Skol gain has proved an "enormous boost" to morale and that the agency is on target for 1978 billings of around £59m.
Things are hotting up in lager.

Things are hotting up in lager. Total MEAL-type spending on Skol in the 12 months to March 31 was £958,900 (MEAL does not log posters) compared with Harp's £960,200 via Ayer Barker Hegemann, Carling's £1,407,700 via McCann-Erickson, Carlsberg's £697,500 via KMP, and Heineken's £1,258,600 via Collett Dirksnson £1,258,600 via Collett Dickenson

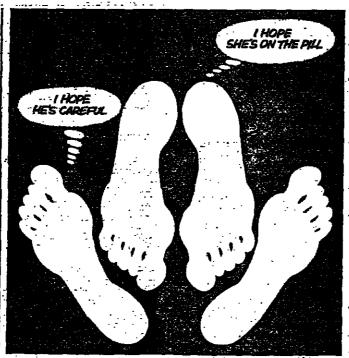
Masius, formerly known as the grocers of St. James's Square, will next year handle no less than an estimated £8m worth of drink advertising, including Babycham, Harveys, Grants of St. James, VP wines and Allied's other larger brand, Lowenbrau,

now in test in the South. The Skol loss is particularly painful for BBDO. Although the account is already worth £2m., significant increases in advertising expenditure are expected

ater on.

• RELLOGG'S IS BANKING £750,000 on the launch, starting tomorrow, of Kellogg's Extra. its first-ever hot cereal. It marks the company's entry into the market. By next year Kellogg's aims to capture 25 per cent of a market at present led by Lyon's Ready Brek. Kellogg's Extra is the company's third national product launch this year, following Fudge Mix and Cracklin' Bran. Advertising is being handled by Leo Burnett, not Kellogg's main agency, which is

• DUNLOP SEMTEY (Retail Division) has appointed Dorland Advertising. The account is expected to bill more than £250,000 next year. Dorland has won 14 new accounts this year, including Liptons. Caterpillar and Toshiba Semtex was pre-viously with Roe Downton (Gloucester).



Marketing techniques exist:

everyone is affected by them

to some degree. It is illogical

and inefficient not make use of those which can be adapted to

the social marketing of contra-

ception." So says Wendy

Smith, author of "Campaigning

for Choice," a review of the role of media-based publicity

in providing contraception which the Family Planning Association published this

According to the author:

Responsible publicity for birth control, using everyday language and putting contra-ception into the context of sex,

love and family security, should be allowed on TV, radio and in all newspapers ——a

delicate reference, presumably,

to the absurd coyness with

which some newspapers have

in the past refused to carry family planning ads.

The report cites two major

barriers. First, the "lingering pseudo-fastidiousness of the

IBA, London Transport and

others" whose restrictions pre-

vent advertisers from effec-

tively using the mass media.

Second, the campaigns them-

selves, which in the past have

often wasted money and effort

"simply because of the sponsors' naively, distate for

commercialism or plain lack

of adequate funds."

week (£1).

The Health Education Council
 ■

author's book. According to her, the most successful campaigns of the past were those which related directly to the every-day fundamentals of sex. love, family and security.

The two-pairs of feet advertisement shown here was part of a £75,000 Health Education Council campaign run last year via Saatchi and Saatchi -more accurately, run partly, for both the Mirror and the Sun refused to have any truck with it. even when offered two alternative visual treatments. However, it did appear in a range of teen magazines, some of them owned by IPC.

One of the case studies in the report looks at the HEC's \$100,000 cinema campalga promoting awareness of contraception services available under the NHS. The 45-second ad was shown in 1,400 cinemas in 1975-76. The cinema was chosen as the best medium for communicating with a young, sexually active, mainly unmarried audience. This campaign and its attendaut evaluation, says the FPA. was arguably the best designed

and funded of its kind. As il happens, tests indicated that the campaign had no effect on awareness of NHS contraceptive services, though the awareness level seems to have been remarkably high to start

new products are absolutely vital food retail sales in 1977, has also ing manager responsible for in their need to move from compaid much attention to new products and claims that as much modity lines such as frozen vegetables to added value convenience as a fifth of its current turnover products.

Birds Eye has recently met the past five years. The activity ing and evaluating new opportunities carrying out the role.

Cornish pasties and cottage pie. They sell because they are condevel operation as well as of good quality.

Another ambitious development is that of Findus Calorie has undoubtedly been helped by tunities carrying out the role.

In general there has been a search into slimming and contage pie.

They sell because they are condevel that the French liking for crepes development activity, while the could be adapted to the UK and a sales volume of Crispy Pancakes which in 1977 has also ing manager responsible for that the French liking for crepes development activity, while the could be adapted to the UK and a sales volume of Crispy Pancakes which in 1977 has also over the world. Thus it felt that the French liking for crepes development activity, while the could be adapted to the UK and a sales volume of Crispy Pancakes which in 1977 has also over the world. Thus it felt that the French liking for crepes development activity, while the could be adapted to the UK and Calorie Crispy Pancakes which in 1977 has also or the world. Thus it felt that the French liking for crepes development activity, while the could be adapted to the UK and Calorie Crispy Pancakes which in 1977 has also or the world. Thus it felt that the French liking for crepes development activity, while the could be adapted to the UK and Calorie Crispy Pancakes which in 1977 has also or the world. Thus it felt that the French liking for crepes of that the French liking for crepes of that the French liking for crepes of the world. Thus it felt that the French liking for crepes of the world. Thus it felt that the French liking for crepes of success with China Dragon, has undoubtedly been helped by tunities, carrying out the relective cakes. United Biscuits increased enormously its re-products, implementing the planing and control control cakes. United Biscuits increased enormously its re-products, implementing the planing and evaluating new opportunities, carrying out the relection of the control cakes. United Biscuits increased enormously its re-products, implementing the planing, developing the pared foods of all kinds; the potential market: 50 per cent of trick, as usual, is to find the adults are over-weight and 25 by announcing a launch in frigerated space and which is ning and launching new products. the retail rather keener on new products in frozen into test market or nationally.

ferent (possibly foreign) and something to slim.

industry will be mortified to industry since the 1930s.

It was not, however, until the parent company paper for their workers. They put significant resources and thrust into its industrial market however, under Acts of thrust into its industrial market however, under Acts of the unage were added Kleenex sive inquiries for KC's sales addition to which, the use of legally specified number of wash legally specified number of wash basins: approximately one per last decade its volume sales to prospective customers' awareness terms both of sales force of freedows.

WINSTON FLETCHER describes the sciences of Krands and supplements, would reach long the sunday have been quadrupled.

More to the first burst of the campaign schedule of six national magashowed this awareness level to add technical media were used, zines, including the Sunday have been quadrupled.

More to the point, in a less product card advertising approximately 80 per cent of the than booming economy with product cards generated inexpension of £6,600 and with significantly reduces the usage of KC's product cards and towels must go a legally specified number of wash basins: approximately one per last decade its volume sales to prospective customers' awareness terms both of sales force last decade its volume sales to prospective customers' awareness showed that a tight the first burst of the campaign have been quadrupled.

More to the point, in a less product card advertising approximately 80 per cent of the than booming economy with introduction costs. In ducts at work—running at over the basins: approximately one per last decade its volume sales to prospective customers' awareness terms both of sales force last decade its volume sales to prospective customers' awareness terms both of sales force last decade and developed along lines timed and developed along lines.

WINSTON FLETCHER describes the success showed that a tight the first burst of the campaign and technical advertising approximately one per last echnical advertising approximately 80 per ce leading to discriminatory legis- WINSTON FLETCHER describes the success of Kimberly-Clark's gleaned from continuous research

and testing.
All of which sounds like an unmitigated paeon of praise to the use of national consumer— as against trade and technical—

Satery at work act (russ average)
and without risks to bealth."

In spite of all this concerned regulation, a small survey earlegislation, a small survey earlegislation as the state of all this concerned regulation as the state of the stat

# New products as a way of life

INDUSTRIAL MARKETING

The celebrated Health and Safety at Work Act (HASAWA)

demands that every working environment should be "so far

Building a disposable business

first major national industrial advertising campaign

the familiar (traditionally Eng-

Findus has developed the Something Special range, which was worth £4m at msp in 1977; it consists of lasagne, cannellani THOSE WHO are cynical about than the catering area and, if foods than in any other grocery the value of new products and the initial results are satisfactory, market.

Sources for new ideas, it operates other recent new product single find study the new product new product development profused itself by development performance of the gramme will follow. Findus, having, under the marketing on new frozen food companies, for whom which had 15 per cent of frozen director, a new products and marketing on new frozen food companies, for whom which had 15 per cent of frozen director, a new products are sheelingly significantly and a significant property of the world. Thus it felt they sell because they are con-

The big new

**EDITED BY ARTHUR BENNETT AND TED SCHOETERS** 

# • RESEARCH Magnet for high field

complete the coupon and return it to Alan Cooper Limited, Burnley Road,

en, Lancashire OL147ED, or phone

magnet, which has a contained energy of 150,000 Joules, can be magnet is first cooled and then maintained at its full field without an external power supply of the zero electrical Thor Cryogenics, Henley Road, Berinsfield, Oxford, 0865 340601. When fully energised, the magnet, which has a contained out an external power supply because of the zero electrical resistance property of super-conductors. This is to be compared with the continuing power requirement of several MW by a similar, water-cooled magnet wound with conventional materiuls. The stainless steel former and

The stainless steel former and the electrical insulation had to be designed to withstand temperature changes from just temperature, a superconwhich the nioblum-tin superducting magnet, designed and conductor is metallurgically with a guaranteed maximum non-

vire form of circular or similar . AUTOMATION are of extreme importance in that they allow for the full mechanical support of the wind-ing to contain the extremely high forces generated when the

# Retrieval of many parts

Forces generated when the magnet is first cooled and then emergised.

AT ONE of the key plants directed to the required bin amplet is first cooled and then emergised. Oxford 0865 340001.

Thor Cryogenics, Henley Road, Bertiasfeld, Oxford 0865 340001.

Bertiasfeld, Oxford 0865 340001.

Thor Cryogenics, Henley Road, Bertiasfeld, Oxford 0865 340001.

Thor Cryogenics, Henley Road, Bertiasfeld, Oxford 0865 340001.

Thor Cryogenics, Henley Road, Bertiasfeld, Oxford 0865 340001.

The According to the co-ordinates of the co-ordinates of the position by an operator which has a five digital input and output with a digital input and output with a poperation. Called Conserva-trieve, the appropriate vertical position operation. Called Conserva-trieve, the appropriate vertical position and the stacker travels to the production of the key plants of the required bin abmildity.

The According to the co-ordinates of the co-ordinates of the position by an operator using a bundled to operation. Called Conserva-trieve, the appropriate vertical position operation. Called Conserva-trieve, the appropriate vertical position operation with a maintenance of the production on the keyboard which has a five digital input and output with a system with can be suspended to the appropriate vertical position operation until allows intered to the production until allows intered from a versel or stand on the appropriate vertical position was an operation device the appropriate vertical position until allows intered from a versel or stand on the appropriate vertical position until allows intered from a versel or stand on the appropriate vertical position until allows intered from a versel or stand on the face of the new links of the production and tallows intered from a versel or stand on the face of the new links of the production with a plant of the production and tallows intered to the production until allows intered to eversely be equipment such as tendency and with predate the V9.3 [ELIA].

The fully-automated systems birity of colline to the

drives can be provided to give a suction and discharge ports. Seas back-up storage where required.

Systems installed or on order, include telemetry (substation control), compensated weighing, conveyor control, plant simulation, railway signalling and flapboard display.

Application programs are not drived.

Application programs are not display.

Ministry programs are not display.

Ministry programs are not successful and display ports. Seas A unit is currently operating in the North Sea in 600 feet of water on a pipeline maintenance contract removing silt from a trench prior to the replacement of a damaged section of oil pipeline.

#### INDUSTRIES Works deep

OFFSHORE

# namein engineering

- General consultancy Services

OPERATED AT close to absolute under 100; the temperature at moder of the temperature at moder of the temperature at the properties of the controllers of the series in the manner of the properties of the controllers of the series in the manner purposed by the controllers of the series in the manner purposed by the controllers of the series in the manner purposed by the controllers of the series of the properties of the controllers of the series of the controllers of the controllers of the controllers of the series of the controllers of Framac Executive by Alan Cabber The total concept office system Fortunitier information on the France Executive suite, the Alan Cooper service behind it and other office furniture ranges

Address

the manufacturing and transport industries, is launching a product — Econosol Auto-D Winter-grade — that helps to maintain the efficiency of diesel engines even in the coldest winters. It contains compounds that inhibit the growth of large crystalline wax formations in fuel oil that wax formations in fuel oil that are the root cause of blockages to cut at temperatures below freezing. This makes it possible for engines to function at high efficiency at temperatures below the hazards minus 18 degrees C.

Aids diesel-engine to run in frost

Low Temperatures create reduced deposition of hard national Paint's laboratories problems in diesel engines that carbon and maintenance costs where it is now being manufacters. The fuel "gells" and this can by preventing oxidation and The coating is already being cause blockages and reduces the efficiency of the engine, simulatineously increasing the volume stabbilised and the formation of impregnated fibreboard covers taneously increasing the volume gums and resins in the fuel for the backs of television of fumes emitted through the pumps and lines is inhibited, cabinets to prevent the build up legition delay is reduced, result of static electricity. The electricity and the fuel in this way a smoother trical specification called for a two funds specialises in the formulation of products to improve power generation is provided and many types of combustion for economies are made in fuel the inclusion of fungicides to industries, is launching a pro-

minus 18 degrees C. A GRAPHITE water-borne paint anti-static properties could be Exhaust smoke emission is cut with anti-static properties, put to good advantage. down and the corrosive action of believed to be the first of its More from IP-IC, 380 Richmond sulphur trioxide is almost com-kind, has been developed in the Road. Kingston-upon-Thames, pletely eliminated. There is a wood products section of Inter- Surrey KT2 (01-548 1234).

Although it was originally formulated for use in the television industry, the company envisages wider applications for the coating where its special

Waddingtons Playing Cards

 Programme planning Routing systems design Graphics design Data input, editing, and update Complete programme management & maintenance

 Personnel training Demonstrations & seminars

Enquiries to: Managing Director Link House Communications Ltd., Link House, West Street,

Poole, Dorset. Tel: Poole 71171. Telex 417109.

# TERNATIONAL FINANCIAL AND COMPANY NEWS

NORTH AMERICAN NEWS

## Japanese stake for Data General

# Chrysler looks for 10% rise in new car sales

BY JOHN WYLES

NEW YORK, August 30.

DATA GENERAL has reached agreement in principle with shareholders of Nippon Mini-computer of Japan under which the U.S. company will acquire a dout 10 per cent interest in Nippon. This will be in exchange for granting it an exclusive licence to manufacture and sell Data General computer products in Japan.

CHRYSLER TODAY forecast a front-wheel-drive small cars, the ment of new vehicles. The huge task of raising this money, which front-wheel-drive model from is double the company's normal investment rate, was an important factor in persuading the company will acquire a dout 10 per cent and help boost butable to its inability to company to divest its European operations.

Chrysler claims that part of its company to divest its European operations.

Chrysler shares General Motors' optimism about the outlook for car and truck sales and the company's executive vice to 15 per cent.

General computer products in the current model year Ford. But it adds that its new Japan.

The company today unveiled Chrysler New Yorker, Chrysler New Ford. The company's executive vice Chrysler New Yorker, Chrysler New Yorker, Chrysler The company's executive vice Possible its new 1979 models and sought should bring its share of the to present a picture of a vigorous full-sized car market up from manufacturer confident of meetaround 3.5 per cent to 7 per cent. Sent including India. China. These new cars are consideratively to be the best combined lenges. Sent receives are ably smaller and more light. However, most analysts would North and South Rorea and the lenges. Senior executives are ably smaller and more lightPhilippines and will receive clearly anxious to counter the weight than their predecessors to meet the Federal impression of growing weakness on as to meet the Federal be surprised if next year matches to mounters on an ongoing basis brought about by heavy financial Government's increasingly strinter the anticipated 15.2m cars and to automatic renewal upon mutual consent of the parties.

Completion of the transaction Peugeot-Citroen.

Completion of the transaction Peugeot-Citroen.

The most important features are ably smaller and more light.

However, most analysts would be surprised if next year matches to meet the Federal be surprised if next year matches are matches and meet the Federal be surprised if next year matches to meet the Federal be surprised if next year matches are matches and meet the Federal be

by various Japanese govern of the model range, which will more to the gallon.

ever, General Motors who last mental authorities and certain go on saic at the end of next. The redesign of this model year called the 1978 sales year rulings from the Internal month, are redesigned, more range represents a portion of the pretty accurately is predicting. Revenue Service as to the U.S. fuel-efficient, full-sized cars, new \$7.5bn which Chrysler expects to 15.5m sales of ears and trucks in tax consequences to Data two-door versions of the Chrysler spend by 1982 in the develop- the 1979 model year.

Nippon's net sales for its fiscal year ended March 31 were about

#### Reliance chief agrees to court order

By Our Own Correspondent

NEW YORK, August 30. MR. SAUL STEINBERG, chairman of Reliance Group, the diversified company which includes Leasco, yesterday agreed to a court order barring him from future violations of the anti-fraud provisions of the Federal securities laws. Mr. Steinberg had earlier been accused by the Securities and Exchange Commission, together with Mr. James Randall of Los Angeles, of violating these laws. Both men declined to admit or deny the

The SEC alleged that Mr. Steinberg induced Mr. Randall and others to buy stock in Pulte Home Corporation on the American Stock Exchange in July, August and September, 1976 on the basis of misleading statements about a

conducted in Northwes

# Bendix dividend lift expected

BENDIX IS expected to chalk of Merrill Lynch predict that subsidiary, DBA of France, up its ninth consecutive year of Bendix's automotive sales and Mr. Phillippi reckons that record earnings in fiscal 1979, operating profit will continue to DBA's losses will trim Bendix despite an anticipated decline in advance next year.

earnings by about 25 cents a

despite an anticipated decline in advance next year.

North American car production
In the new model year which begins on Friday.

Securities analysts also expect wide in fiscal 1979.

The quarterly dividend to be raised to at least 60 cents from Bendix's automotive components are respected to at least 60 cents from Bendix's automotive components.

But about 60 per cent of fiscal 1979. It plans to sell DBA's acrospace and automotive elections are respected to at least 60 cents from Bendix's automotive components. the present rate of 57 cents this business is in original eulpment, trical divisions and retain its and he expects 1979 model-year brake parts business.

Last year, Bendix derived more car production in North America He believes that Bendix's than 63 per cent of its pre-tax to be flat or up to 5 per cent automotive pre-tax profit will operating net income from auto-lower than this year's 10.25m reach \$187.4m next year against

and steering systems, oil filters. Both analysts believe that 1978 and \$165.3m last year, spark plugs and other com-Bendix will also benefit from For the company as a whole, spark pings and other combened with also beneat from for the company as a whole, ponents, as well as recreational price increases and greater analysts are projecting earnings which we higher than the penetration in North of \$5.70 a share in the year end-America, along with higher interpolity of Dean Witter national margins due to improve fiscal 1979, against \$5.29 last year. Reynolds and Mr. Paul Mallon ment at its largest overseas Reuter

motive products, including brake units.

#### Genesco leaves heavy losses behind

\$1.84, while tools and equipment

This announcement appears as a matter of record only.

good faith and with no intention earned \$3.97 per share against against 20 cents. chemicals concern Whi of impropriety." \$1.84, while tools and equipment McDonough, the shoes, tools to \$1.61 from 67 cents.

proposed business venture between Pulte and International Basic Economy Corporation. The SEC alleged that at the time Mr. Steinberg was planning to sell his Pulte stock.

Mr. Steinberg's lawyers said he agreed to the court order "solely to avoid the distraction and expense of protracted and pointless litigation." The charges, he said. concerned "personal investment transactions conducted in Northwestern Steel and Wire higher per share loss of 21 cents share, while metals, textiles and wire higher per share loss of 21 cents share, while metals, textiles and sizeable gain from increased its first half earnings in

chemicals concern Whittaker rose

Grand Union offer

GRAND UNION, part of Sir James Goldsmith's Cavenham group, said that as of August 29, it received tenders for about 3.33m shares, or about 88 per cent of Colonial Stores common stock, at \$35 a share, Reuter reports from Elmwood Park. The offer, worth over \$130m, has been extended to

Grand Union said that all shares properly tendered will be purchased and paid for as soon as practicable. All shares properly tendered during the a daliy basis.

# FTC probe for gases Chemetron

rights issue the French stock the group needs to replace some of FFrs.155 during the summer of its traditional but increasingly before rumours of the impendobsolete activities. He has cited the rest its reast like optical fibres and fine back to their current level. come the third leading company in recent weeks to take advantage of the rise this year in share price values.

The group needs to replace some of FFrs.155 during the summer of its traditional but increasingly before rumours of the impendobsolete activities. He has cited the rest is to their current level.

In a separate development, Jacques Borel International, the finacially troubled hotel and restaurant chain, reports a net THE U.S. Federal Trade Commission said it is investigating a proposal by Allegheny Ludlum Industries to sell the industrial gases division of its Chemetron unit to Liquid Air,

which is French controlled. In Chicago, meanwhile, a federal district judge accepted an agreement between Cheme-tron and Rhinechem, a unit of Bayer of West Germany, that obain share price. will delay the proposed sale of The new money will be in share values since the begin-Chemetron's organic pigments division to the Bayer unit.

The FTC's bureau of com-petition in Washington declined to give details on its study of the proposed Chemetron-Liquid Air sale. Allegheny Ludlum, in its second quarter report to share-holders, disclosed the FTC group's president M. Roger per cent on their end-of-year in 1979. Martin has made no secret of levels for many companies. St.

action is an item that referred investigations of both

sale by

Allegheny Ludium announced in June that it agreed to swap Chemetron's industrial gases division for an interest of about one-third in Liquid Air. which is 79 per cent owned by L'Air Liquide of France. Last year, the U.S. concern carned \$19.9m, or \$2.75 a share, on sales of \$294.5m.

#### U.S. investment abroad slows

WASHINGTON, August 30.

DIRECT investment abroad—defined as ownership of 10 per cent or more of a foreign company's stock by 9.1 per cent last year to \$148.8bn, trailing the 9.9 per cent gain at the end of 1976 to \$136.4bu, the Commerce

Equity and intercompany outflows, which include loans and advances to affiliates and branches, increased by 25 per cent to \$4.9bn at the end of 1977 from \$3.9bn at the end of

# Saint Gobain plans to raise \$136m by rights

BY DAYID CURRY

PARIS, August 34.

IN LAUNCHING the largest the fact that in the long term Gobain itself moved up to a peak rights issue the French stock the group needs to replace some of FFrs155 during the summer

It is to tap shareholders for pagnic Generale d'Electricite led the way to the stock market to first six months of 1978 compared will be on a one-for-six basis at raise FFr 300m and last week with a loss of FFr98m a year count of around 18 per cent on present values for the Saint-Gobain share price.

Before the holidays Communicative troubled hotel and restaurant chain, reports a net loss of FFr 58m (\$13m) for the first six months of 1978 compared with a loss of FFr97m a year count of around 18 per cent on Petroles announced a FFr 558m exitering the half rights issue.

Before the holidays Communicative troubled hotel and restaurant chain, reports a net loss of FFr 58m (\$13m) for the with a loss of FFr98m a year loss of FFr98m (\$13m) for the loss of FFr98m a year loss of FFr98m a ye Behind this activity is the rise against FFr 57m.

In December last year, at the devoted to reinforcing the com- ning of the year, coupled with time of a borrowing operation pany's capital base since current the confidence engendered by the investment needs are covered government general election directors forecast that after conadequately by existing resources victory. adequately by existing resources victory.

tinued losses in 1978 the comand cash-flow. However, the Share values are up some 40 pany would move out of the red

See Lex

## Uddeholm forecasts a return to profitability

BY JOHN WALKER

UDDEHOLM, the Swedish steel year showed an increase of 21 and forest industry group. reper cent over the same period ports a somewhat less depressing in 1977 at SKr 356m (\$80m). picture at the half-way stage The result in the steel section this year. The pre-tax loss for showed an improvement from a the first six months of 1978 pre-tax loss of SKr 113m in 1977 amounted to SKr 178m (\$41m), to a loss of SKr 21m in the same compared with a pre-tax loss of period this year.

SKr 213m in the first half of The last five months of this last year.

Group sales went up by 20 per sult, particularly in the steel issues will be priced at 99, and

to SKr 5bn (8340m) compared forecast for the whole of 1978 will be available in the market with SKr 1.2bn in 1977.

The forest industry division against last year, when the loss sales during the first half of this amounted to SKr 320m.

Republic has been expected for record.

**EUROBONDS** 

## EIB \$100m issue priced

BY FRANCIS GHILÉS

prime rate up by a per cent as stance: in April 10-year followed suit. Federal Funds active with prices edging up also moved higher by a quarter slightly. The only new issue of 6 per cent or less. of a point to S! per cent, at one point touching Si, per cent.

The \$100m 12 year bond for the European Investment Bank was priced yesterday at 99; per Airlines stake by Nikko Securities, constitutes Reuter reports from Houston.

point touching S<sub>1</sub>, per cent.

Trading was minimal, but Electric Company. The coupon dealers marked prices down by an average of a quarter of a but other terms have not been point. The Floating Rate Note confirmed. Lead manager is present the sector remained quiet.

The \$100m 12 years hand for

Of the total amount of this issue, it now owned 1.55m shares of of low margins.

880m will be placed in Japan National Airlines—about 18.2 and the remainder in Europe, per cent of the outstanding stock.

The larger tranche, which is led at the close of trading yesterday, chairman Georg Sulzer told the by Nikko Securities, constitutes Reuter reports from Houston.

#### **\$700m** West German bond placing

By Jeffrey Brown

Group sales went up by 20 per sult, particularly in the steel issues will be priced at 99, and cent in the first half of this year and power divisions. The pre-tax in each case DM100m of the issue

some time following the recent recovery in the doinestic bond market. The latest issue is the first by the Federal authorities since April, when DM1.5bn in bonds, spread equally between three tranches ranging from six to 12 years, met with a very

Since then the Federal authori-The dollar sector of the bond the first public dollar denominated was dominated yesterday inated bond to be floated in the first public dollar denominated was dominated yesterday inated bond to be floated in funding programme on the short term paper market, allowing the rate: prompted by Chase led by Credit Suisse First Boston Manhattan, which moved its Ltd and will be placed outside prime rate up by 1 per cent to Japan and the U.S.

Since then the Federal authorities have concentrated their funding programme on the short term paper market, allowing the public bond arena to settle and find a new yield level. This appears to be the present circumstance: in April 10-year bonds followed suit. Federal Funds

#### Sulzer orders below budget

Incoming orders of Swiss engineer Gebrueder Sulzer are now running about 25 per cent below budget and the quality of cent. It will carry a coupon of sper cent and yield 9.1 per cent. Texas International Airlines said taking the company into areas Of the total amount of this issue, it now owned 1.55m shares of of low margins.

weekly newspaper Weltwoche in an interview that the prices obtained for many deals are below cost. The business mix is getting steadily worse so that the average margin is on a pronounced downward trend, he said. Sulzer is taking on "bad orders" to avoid short time working. Reuter

#### SELECTED EURODOLLAR BOND PRICES MID-DAY INDICATIONS

Weekly net asset value on August 28, 1978 Tokyo Pacific Holdings N.V.

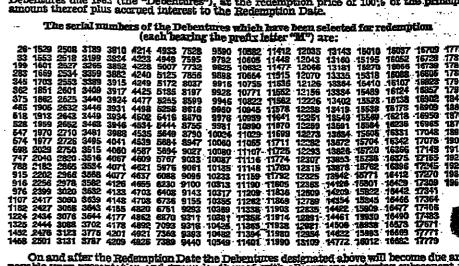
> Tokyo Pacific Holdings (Seaboard) N.V. U.S. \$51.33

Listed on the Amsterdam Stock Exchange Information: Pierson, Heldring & Pierson N.V. Herengracht 214, Ams

YONTOBEL EUROBOND INDICES 14.5.76=100%

U.S. Rubber Uniroyal Holdings Société Anonyme 614% Guaranteed Sinking Fund Debentures due 1982

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Indenture dated as of April 1, 1987, there will be redeemed for account of the Sinking Fund on October 1, 1978 (the "Redemption Date") \$401,000 principal amount of the 614% Guaranteed Sinking Fund. Debentures due 1981 (the "Debentures"), at the redemption price of 100% of the principal amount thereof plus accrued interest to the Redemption Date.



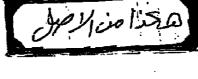
On and after the Redemption Date the Debentures designated above will become due and On and after the Redemption Date the Debentures designated above will become due a payable upon presentation and surrender thereof, with all coupons maturing subsequent October 1, 1978, attached, either, at the option of the holder, at the office of Chemical Baby mail: P.O. Box 25983, Church Street Station, New York, New York 10249 or hand: Corporate Tellers, 55 Water Street—Room 224, 2nd Floor North Building. North, New York 10041, or at the office of Mees and Hope in Amsterdam, the office Societé Generale de Banque S.A. in Brussels, the office of Deutsche Bank A.C. in Frankfithe office of Hambros Bank Limited, Samuel Montagu & Co., Ltd., and S. G. Warburg & Limited in London, the office of Banque Generale du Luxembourg, S.A. in Luxembourg, office of Banco Nazionale del Lavoro in Milan and the office of Credit Lyonnais in Faris. Interest on the Debentures so designated for redemption shall cease to accrue on after the Redemption Date. All coupons maturing after said date which appertain to st Debentures shall be void. Coupons maturing on October 1, 1978, should be detached a surrendered for payment in the usual mature.

U.S. Rubber Uniroyal Holdings Société Anomy

DATED: America 21, 1978

UNITED **CALIFORNIA** 

BANK Member of Western Bencorporation



# Société Nationale de Sidérurgie

U.S. \$13,700,000

Medium term loan

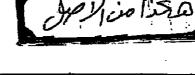
Guaranteed by Banque Extérieure d'Algérie

Arranged by **United California Bank** 

Funds provided by

United California Bank The Cleveland Trust Company First National Bank of Oregon The Mitsubishi Trust and Banking Corporation The Mitsui Trust and Banking Company Limited Pierson Heldring & Pierson (Hong Kong) Limited Riggs National Bank of Washington, D.C. The Royal Bank of Scotland Limited **UBAF Arab American Bank** Pacific National Bank of Washington

Agent



#### Toray forecasts return = to profit

vide any comparative figures with its fully consolidated accounts.

The company's problems stem from its three synthetic fibre

divisions (nylon, acrylic and poly-ester), which between them ester), which between them account for some 55 per cent of account for some 55 per cent of total sales. A relative newcomer to these markets, Kanebo is generally reckoned to have been forced into price cutting on a more substantial scale than most of its associated companies. Raw steel reflected in reduced prices for with liquid funds of A\$233m. total sales. A relative newcomer to these markets, Kanebo is generally reckoned to have been

competitors.
Toray said yesterday that a sluggish domestic synthetic textile market and a drop in export sales due to the yen's sharp apprecia-tion against the dollar were responsible for the sales fall. Factors contributing to the year's losses included a sharp fall in parent company net income and a shamp in some overseas subsidiaries, in tion. By contrast domestic companies owned jointly with foreign partners "performed well."

#### Setback at Steelbrite

JOHANNESBURG, August 30. THE RECESSION in South Africa's building industry is reflected in the preliminary results from one of the country's larger kitchen equipment manu-facturers, Steelbrite. After a first-half net loss of R152,000, the company has now reported a further deterioration and a loss of R695.000 (\$800,000) in the second six months to June 30,

Investment, predicted no second. same eight month period of last A loan of \$32m for eight in January last year when it improvement despite rationalisation of its manufacturing divisions. The same prediction is repeated for the current period, and with little likelihood of new building starts recovering in anything but the medium term, a return to profitability is

Richard Rolfe adds: The industrial conglomerate Calan, whose interests range through lighting. plastics and rubber, has reported its first profits setback for more than a decade in the 12 months to June 30. On turn-(\$153m), income before tax fell from R8.7m to R6.9m (\$8m).

After adjustment for minority interests and tax, net income was down from R5.7m to R4.5m. On this basis earnings per share were down from \$1\$ cents to \$61\$ cents, but the income statement takes in net attributable income of associates of \$R0.7m.

The interim dividend is unable to the boom in the local share half-year results, with pre-tax (AMI), which assembles and distributes Toyota motor vehicles, has reduced its dividend from \$4.1m ringgits (\$1.8m).

Sales during the six months as per cent to \$2.88m (visually the pre-tax distributes Toyota motor vehicles, has reduced its dividend from \$1.5 cents a share to 7 cents a \$1.5 cents a share to 7 cents a \$1.5 cents a share to 7 cents a \$1.5 cents a \$1.5 cents a \$1.5 cent a \$1.5 cent

# BHP sees some signs of improvement in demand

BY JAMES FORTH

ing the year. The automotive future for improvement in the and, in terms of national object industry, historically a large group's steel business. tives of facilitating exploration market, was particularly affected. The lower contribution from and the financing of subsequent

loss of A\$43m from steel able business.

Continued recovery in export oil was correct, and to have done.

The report disclosed that prices and a higher level of so while imposing an artificially orders for steel from Australian domestic demand were the factors low selling price on crude procustomers rose 7.5 per cent dur- looked to in the immediate duced would have been unique ing the year. The automotive future for improvement in the and, in terms of national objections of the interpolation of facilitating analysis they historically a large group's steel business.

# Further small loans for Spain

come, but one major operation ceeds of this loan, which is being for the kingdom is widely led by Chase Manhattan Asia, expected.

Madrid. Spain is expected to a spread of 1 per cent. The pro-borrow about 81bn less this year ceeds of this loan which Chase ing \$60m for eight years, with

Other Spanish utilities will be cent for the first five years rising per cent. In Lai raising loans in the months to to 1 per cent. Part of the pro-This operation may be for as much as \$10n, but any higher Korean Airlines is raising figure is firmly ruled out in \$124m for eight years carrying guarantee.

Another European horrower is the Kingdom of Thailand: lead on a spread of 2 per cent. Chase currently raising money: Assi manager is Grindlay Brandts, Manhattan has received the man-AB, the Swedish state-owned and the borrower is paying a date for the latest loan, as it did producer of sawn timber, is spread of I per cent for the first.

In Latin America, Empress Lineas Maritimes Argentines is arranging a \$50m. loan for 11 years with a spread of 2 per cent EXCHANGE CROSS-RATES throughout. The loan, which is co-led by Commerzbank and Bank

second six months to June 30, 1978.

After the first half. Steelbrite, which is 63.7 per cent owned by Johannesburg Consolidated by Johannesburg Consolidated as the second that over the purchase of aircraft.

Second six months to June 30, 1001 tess this year ceeds of this loan which Chase ing \$60m for eight years, with the was expected last spring. Manhattan Asia is leading and three years grace, on a spread of the consolidated to the purchase of aircraft.

# Seacorp first half rise

BY WONG SULONG

(\$153m), income before tax fell on the boom in the local share half-year results, with pre-tax from R8.7m to R6.9m (\$8m), market and the high liquidity profits rising by 45 per cent to

KUALA LUMPUR, August 30.

SOUTHEAST Asia development sluggish results, Harper Gilfillan Corporation (Seacorp), the Berhad, the Malaysian-based Malaysian finance and invest trading and travel group, has ment company, continues to ride produced an encouraging set of

#### AMI reduces dividend

By Our Own Correspondent SYDNEY, August 30.

AUSTRALIAN Motor Industries (AMI), which assembles and distributes Toyota motor vehicles.

ment takes in net attributable rinngits (\$411m).

results for the full year would \$A255m (US.\$294m). Earnings income of associates of R0.7m for earnings, by this reckoning, changed at 15 per cent.

last year's pre-tax profits of to 37 cents—leaving the dividend down from 88 cents to 70 cents.

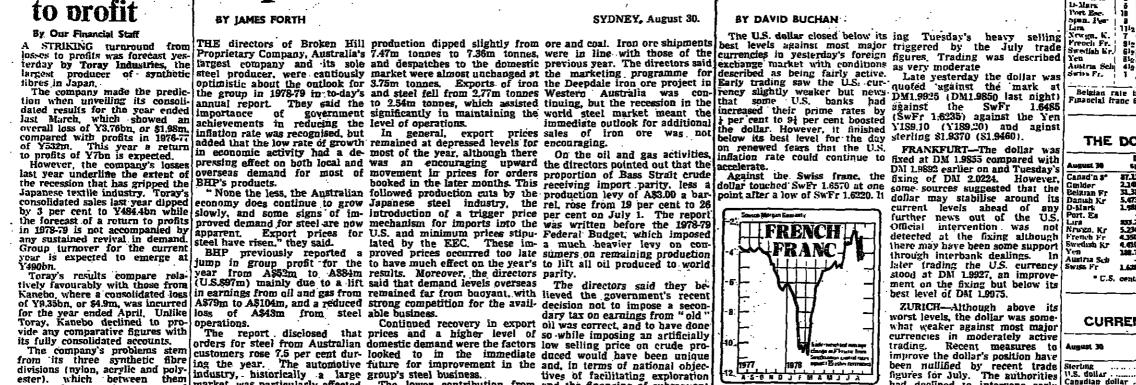
Meanwhile, after three years of 7.25m ringgits.

#### MR. YASAR'S TURKISH CONGLOMERATE

# Object lesson for entrepreneurs

BY METIN MUNIR IN IZMIR

# **Dollar closes** below best level



slightly firmer at DM 19800 from Swfr 1,8300.

DM 19910 having touched PARIS—The dollar staged a DM 19765 during the day after a low point of DM 1,985.

Using Morkan Guaranty figures at noon in New York, the dollar's some U.S. banks to increase their at noon in New York, the dollar's prime rates to 91 per cent from 9 trade, weighted average depreciation widened to 9.2 per cent dollar was quoted at FFr 4,34521 up from FFr 4,3475 earlier on but down on Tuesday's late level of FFr 4,3750.

NEW YORK—The dollar had a against the previous fixing of better than expected day follow—L845.30.

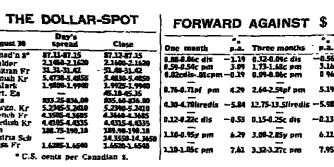
trading. Recent measures to improve the dollar's position have been nullified by recent trade figures for July. The authorities had declined to intervene early

closed at SwFr 1.5460 compared on in the day and the dollar was with SwFr 1.6350 on Tuesday quoted at SwFr 1.63179, up from The West German mark closed its morning low of around slightly firmer at DM 1.9890 from SwFr 1.6300.

DM 1.9810 having touched PARIS—The dollar stated a

# THE POUND SPOT tine month | & p.s. Three months & p.

Beigian rate is for convertible francs. Financial franc 62.69-62.70. Six-month forward dollar 2.42-2.32c pm 12-month 4.50-4.40c pm



**CURRENCY RATES** CURRENCY MOVEMENTS Special European Brawing Unit of Rights Account Sterling
U.S. dattar
Canadian dullar
Austrian schilling
Relgian fram
Caushk krone
Deutsche Mark
Swiss fram
Gintider
French fram
Lura
Yen
Besed on western Based on trade weighted changes from

SPANISH companies are condifficulty small found in the syndicated credit properties and found in the syndicated credit properties are reversed during the fell to Y188.20 at one point before fects of July's \$2.99bn trade deficit and fell to Y188.20 at one point before fectorering at the close to Y189.725 and with an initially weaker dollar. Indeed a best level of \$1.9510. However, post though a group of three banks, with three years grace.

In Sum 1 Note Rates 27.50 28.30

Aug. 30	Pound Sterling,	U.S. Dollar	. Deutsche Mark	garanese Zei	i French Franc	bwiss Franc	Dutch Guilder	Italını Lıra	, Canada Dollar	Reigian Fran
Pound Sterling	1.	1.941	3.860	367.0	8.458	3.195	4,200	1621.	2.231	60.70
U.S. Dollar	0,515		1.989	189.1	4.357	1.646	2,164	83+.9	1.149	31.27
Deutsche Mark	0.259	0.503	1.	95.08	2.191	J.828	1.088	419.8	U.578	15.73
Japanese Yen 1,000	2.725	5.289	10.52	1000.	23.04	8,706	11.44	4416.	6.079	165.4
French Franc lu	1.182	2,295	4.564	435.9	10.	3.778	4.966 ;	1916.	2.638	71.77
With Franc	0.313	0.608	1.208	114.9	2.647	1.	1.315	507.2	0.698	19.00
Doirh Gulder	0.238	0.462	0.919	87.38	2.014	0.761	1.	385.8	0.531	14.45
Italian Line L000	0.617	1.198	2.382	226.5	5.219	1.972	2.592	10.0.	1.577	57.46
Caustian Ivilar	0.448	'0.570	1.730	164.5	3.791	1.432	1.883	725.4	1.	27.21
Belgian Franc 100		3.198	6.359	604.6	13.95	5.264	6.919 ,	2670.	3.675	100.

EURO-CURRENCY INTEREST RATES\*

Aug. 30	Sterling	į	Dollar Dollar	F.S. Dollar	Dutch Guilder	Swiss Franc	West German Mark	French Franc	italian lara	Asian S	Japanese Yet
tishort term	10-11 1034-1114 1118:1112 1112-1112		812-812 811-812 811-914	816.836 814.812 717.71 824.9 9.914	781-14 4-413 419-434 539-559 6-614 618-638	14-12 59-58 59-54 59-54 118-114 114-159	35g-31g 54g-31g 35g-31g 3,g-3,2 3,g-3,2 3,g-3,2 3,g-3,2	71g-74g 75g-77g 81g-63g 85g 87g 9-914 10-1014	32-35 121 <sub>2</sub> -131 <sub>2</sub> 13-14 131 <sub>2</sub> -141 <sub>2</sub> 14-15 141 <sub>4</sub> -151 <sub>4</sub>	714.7% 756.7% 615.6% 9.913 919.94	-1,1% -1,1% -1,1% -2,3% -2,3% -318-312

The following nominal rates were quoted for London dollar certificates of deposit: One month 8,49-8,50 per cent: three months 8,66-8,76 per cent: six months 8,96-9,05 cent: one-year 9,10-0-70 per cent. English Bardollar deposits: two years 91-9) per cent: three years 91-9) per cent: four years 9516-9716 per cent: five years 91-9) per cent nominal closing rates.

Short-term rates are call for sterling, G.S. dollars and Canadians dollars: two days' notice for guiders and Swiss frances. Asian rates are closing rates in Singapore.

#### INTERNATIONAL MONEY MARKET.

# U.S. prime rates up

Several U.S. banks, including Call money quoted for the Belgian Chase Manhattan of New York. Franc (commercial) eased to 51-7 that raised their prime lending per cent from 7-9 per cent, and at 72-75 per cent. Six-month was unchanged at 72-75 per cent. This is the first rise since cent from fig-7 per cent. Three-the-9 per cent level became month funds were quoted at 71-75 per cent. The U.S. Federal Reserve entered the per cent compared with 72-72 per money market in early trading and 12-month were unchanged at yesterday, 10 make overnight repurchase orders. This injected respectively.

SINGAPORE—The Bank of helped to relieve upward pressure

Bank of England Minimum

**UK MONEY MARKET** 

Very large help

Cost Bullion is 1300 The transfer of funds over by expected today.

| Construction | Co (since June 8, 1978)

(the banks.

These factors were outweighed by the unwinding of a purchase and resale agreement of bills, and and resale agreement of bills, and a metake-up of Treasury bills.

(since June 8, 1978)

These factors were outweighed was given by buying a large number of Treasury bills from the discount houses, and a small amount of local authority bills.

Discount houses paid 8-9 per cent for secured call loans yester-tevenue payments to the should have required, however, also being forward surplus balances, also helped by a slight fall in the which may go some way to relieve the folay.

A very large amount of help was given by buying a large number of Treasury bills from the discount houses, and a small amount of local authority bills.

Discount houses paid 8-9 per cent for secured call loans yesterday, with early money command-kning 8i-8i per cent.

Sexchequer was not as large amount of help was given by buying a large number of Treasury bills.

Discount houses paid 8-9 per call of the market was and once again banks are expected to the payments of the authorities was probably rather more than the market and once again banks are expected.

Rates in the table below are nominal in some cases. | Cond Cents | Con Gold Conns...... internstrenally

NEW YORK

GERMANY FRANCE JAPAN Discount Rate
Call (Unconditional)
Bulls Discount Rate
4.23

biggest in Turkey and also a sunder 10 per cent of their total survey. The complex is at Came, the 7 turkish agean resort. The complex is at Came, the 7 turkish Agean resort. The complex is at Came, the 7 turkish Agean resort. The complex is at Came, the 7 turkish Agean resort. The turkish private business. The structure for interest in 10th anniversary as a holding company, is now one of the 10 higgest in Turkey and consists of 19 diversified company, is now one of the 10 higgest in Turkey and consists of 19 diversified companies and two forendations employing 3,500 people. The overall groups and special consists of 19 diversified companies show a spectacutar growth; typical of most large private, industrial groups and special crisis.

Consolidated sales in 1977 food at 1 turkey and to make far profits. The increase in profits was 55 per cent to the gent to the equivalent of 2.1 the increase in profits was 55 per cent to the gent to the equivalent of 2.1 the increase in profits was 55 per cent to the gent to the equivalent of 2.1 the increase in profits was 55 per cent to the equivalent of 2.1 the increase in their sale prices. But for the increase in the late of the increase in the earth of the increase in their sale prices. But for the increase in t

# **Firmer** tendency

GOLD

repurchase orders. This injected liquidity into the market and helped to relieve upward pressure as federal funds traded around \$1/2.5\frac{1}{2}\$ per cent. Lafer on rates continued to rise to \$2/2 per cent, however, in very nervous conditions.

BRUSSELS — Discount and lombard rates were left unchanged at 6 per cent from 6-6\frac{1}{2}\$ per cent.

BRUSSELS — Discount and lombard rates were left unchanged at 6 per cent following a Board meeting of the Belgian National Bank yesterday. A change has not been expected.

Table per cent and \$1/2.7\frac{1}{2}\$ per cent and \$1/2.7\frac{1}{2}\$ per cent from 5\frac{1}{2}\$ per cent from 5\frac{1}{2}\$ per cent from 5\frac{1}{2}\$ per cent, while overnight businesss month eased \$1/2\$ per cent, and three-month fell pared 5\frac{1}{2}\$ per cent previously.

The bank of six-month.

SINGAPORE — The Bank of Tokyo is to raise its Singapore rote to 7\frac{1}{2}\$ per cent from 5\frac{1}{2}\$ per cent from 6-6\frac{1}{2}\$ per cent from tomorrow. The prime rate to 7\frac{1}{2}\$ per cent from desired the easier trend at \$204.80. However some because its change was in October last open during the day with the U.S. dollar easing from its best levels and gold closed nearly \$2\frac{1}{2}\$ above the afternoon fixing in fairly busy rising to 5\frac{1}{2}\$ per cent, while overnight business month eased \$1/2\$ per cent to 7\frac{1}{2}\$ per cent from 5\frac{1}{2}\$ per cent, while overnight business month eased \$1/2\$ per cent previously.

In Frankfurt the 12\frac{1}{2}\$ kilo bar was fixed at DMI3.14\frac{1}{2}\$ per kilo (\$205.97\$ per cent previously.

In Frankfurt the 12½ kilo bar was fixed at DM13,145 per kilo (\$205.97 per ounce) compared with DM13,000 (\$199.94) on

MONEY RATES

#### The Republic of Panama U.S. \$70,000,000 Floating Rate Serial Notes due 1990

For the six months 31st August, 1978 to 28th February, 1979

In accordance with the provisions of the Notes, notice is hereby given that the rate of interest has been fixed at 10f per cent. per amount, and that the inter payable on the relevant interest payment date, 28th February, 1979 against Coupon No. 1 will be U.S. \$515-85

> The Industrial Benk of Japan, Limited Agent Brak

DENMARK can boast an unusual furkish Lira 500,000 capital and intriguing figure as its (\$20,000 at the present exchange shonorary consul in Izmir—Mr. role) he started off. Gradually Selecuk Yasar. It may seem odd the small family workshop was that a unan whose consolidated in significant in a sun-pour should concern himself. Mr. Yasar's new enterprise with Issuing visas. But an examination of his 20-year-old of its kind in Turkey. It now the ideal man for the job; Mr. Yasar's new enterprise with Issuing visas. But an examination of his 20-year-old of its kind in Turkey. It now host in the ideal man for the job; Mr. Yasar's new enterprise went to Denmark to buy licences from the internationally known firm of Sadotin and Humbold. Last year the sales of the paint from Izmir. At first the The two companies, DYO and Sadolin, manufacture agreed to dp. a deal and with a Turkey's printing ink and industrial to dp. agreed to dp. a deal and with a Turkey's printing ink and industrial paint needs and 30 per cent of total paints of construction paints. The field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding work in the field Turkey is the biggest three, Sabanci, Kog and Excarding the was far-spined work in the field Turkey is the biggest three field Turkey is the biggest three, Sabanci, Kog and Excarding the characteristics of the market—Though the characteristics of the market—Though the paints.

In the early 1850s, Mr. Yasar, and weakest traits of the total turnover and Excarding the characteristics of

Indices

## WORLD STOCK MARKETS

# Wall St. firm despite increased Prime Rate

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Repartite Steel. 

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F.154.50

F.109.10 F.28.60

560% F.126.90

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Crane. Crowken Nat...... Crown Zellerbach

Corning Glass.... 6014 UPC International 5112

Curries Wright ... 17

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4%

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5.50 2.80

6.30 3.80 2 0.50 10

61°

TOTAL VOLUME IN CONTRACTS

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\$240 \$280 \$300

KIM F.161.90 KIM F.161.90 KIM F.171.40 KIM F.181 KIM F.180.50

**EUROPEAN OPTIONS EXCHANGE** 

Jan. Vol. i Last

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BASE LENDING RATES

A.B.N. Bank 10 % Hill Samuel 10 % American Express Bk 10 % American Express Bk 10 % Anno Bank 10 % A P Bank Ltd 10 % A P Bank Ltd 10 % Henry Ansbacher 10 % Bauco de Bilbao 10 % Bank of Cyprus 10 % Bank of Cyprus 10 % Bank of Cyprus 10 % Bank of N.S.W. 10 % Banque Belge Ltd 10 % Banque Belge Ltd 10 % Banque du Rhone 10 % Barelays Bank 10 % Samuel Montagu 10 % Barnett Christie Ltd 11 % Bremar Holdings Ltd 11 % Bremar Ho

Breinar Holdings Lid. 11 %
Brit. Bank of Mid. East 10 %
Canada Perm't Trust 10 %
Capitol C& C Fin. Ltd. 10 %
Cayzer Ltd. 10 %
Cedar Holdings 10 %
Charterhouse Japhet. 10 %
Consolidated Credits. 10 %
Conjunta Securities 10 %
Consolidated Credits. 10 %
Consolidated

plain the stock's activity. Among up 0.99 at 422.84. Papers, Abitibi, the most active issue, rose \$11 to \$162 on 162.504 other public work

Brinco
Calgary Power...
Cambor Mines...
Camaia Cement...
Canada SW Lan.,
Cau.lup, Bt Com
Can. Lup, Bt Com
Can. Pacific
Can. Pacific
Lan. Sujer Git...
Carling O'Keele...
Casaiar Asbestos.

CANADA

Consumer Gas...... 295g Consumer Gas..... 191g

Gen-ta-30/8
Giant'te's suite. 14/2
Guil On Canata. 30/8
Hawker'sid. Can. 85/8
Hollinger. 39/2
Hudson Bay Mag. 19
Hudson Bay Mag. 19
Hudson Bay Mag. 22/3

Histon Oll & Gus

nland Bat. Gas.

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Pacific Petroleum | †37 Pan. Can. Pot'm: | 374

Sceptre R'sources

Standard Chartered ... 10 %
Trade Dev. Bank ... 10 %
Trustee Savings Bank 10 %
Twentieth Century Bk. 11 %
United Bank of Kuwait 10 %
Whiteaway Laidlaw ... 10 %
Williams & Glyn's ... 10 %
Yorkshire Bank ... 10 %

Members of the Accepting Houses Committee.

- 7-day deposits 7%, 1-month deposit

17-42 deposits on sums of 110,000 and under 61%, up to 525,000 74%, and over 125,000 54%.

† Bid. | Asked. | Traded. || New atock.

1.95 | 1.00 1.37 | 8.37 5.74 | 3.51 1.61<sub>2</sub> | 71.61<sub>4</sub> 5.62 | 5.62 1.73 | 1.80 2.51<sub>8</sub> | 2.51<sub>8</sub> 1.91<sub>8</sub> | 1.71<sub>8</sub> 2.11 | 2.19 1.7 | 11 | 11 3.11 | 11 3.41<sub>2</sub> | 3.4 3.57<sub>8</sub> | 19

28 554

COPENHAGEN \*

Aug. 30

Danske Bank..... East Asiatic Co... Finanskanken.....

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1818 The market remained weak with the bourse index 0.7 lower at 73.7. Among Banks, Credit du Nord lost some ground after market sentiment was still announcing a cut in its base rate influenced by Bastogi Finanziaria to 8.90 from 9.05 per cent. St. Gobain Pont a Biousson eased Beni Stabili. Both companies of centimes after announcing it intended making a capital issue. Electricals and Construction were mixed. L'Oriol and Aquitaine trials, while Mediobanca in Banks both lost Frs9 while Carrefour and Gervals each fell Frs10. Privileged gained in mixed Industrials, while Mediobanca in Banks and Gervals each fell Frs10. Insurances were marginally ligher.

Switzerland

Prices closed generally higher in fairly active trading. However, in fairly active

GERMANY ◆

597<u>2</u> 3534

INVESTMENT DOLLAR
PREMIUM

\$2.50 to \$14-015, (09/".)

Effective \$13410-415, (205".)

SHAKING OFF a rise in the Prime interest rate, stocks finished arrowing higher in active trading on barrain huming after two days of decilines.

Shaking off a rise in the Prime interest rated days of the content of the co

#### Milan

generally quiet dealings. Leading Banks and Insurances fluctuate Belgian shares were mostly Motor-Columbus and Oerlikor lower in the wake of Wall Buehrle closed steady. Industrial Street. Among the losers were followed the general trend.

NOTES: Overseas prices shown below and/or scrip issue, c Per share. Francs exclude \$ premium. Belgian dividends a g Gross div. ... h Assumed dividend after are after withholding tax.

\$ DM 50 denom, unless otherwise stated, s DKr 100 denom, unless otherwise stated. DKr 100 denom, unless otherwise stated.

\$ SwFr 500 denom, and Bearer shares includes otherwise stated.

\$ SwFr 500 denom, and Bearer shares includes otherwise stated.

\$ Trace of unless otherwise stated.

## | TOKYO ¶

				l <del></del>					·
. Aug. 50	Price + or Dm	IJĭŦ.	З. Д.Н.	Aug. 30	Prices Yen	+or	Div.   %	YM.	Aug. 30
AŁG	83.3	-	$\overline{}$	.bebi (ilan	326	+4	14	2.1	ACMIL(25 cepts)
Allianz Varsich	492 +3	31.2	3.2	Capon		1	12	1.4	Acrow Australia
RMM	221 -1	28.12	6.4	Carlo	800	T 10	25	1.6	AMATIL Sl
BASE	137 1÷1	18175	6.8	Chinon		+8	20	2.2	Ampol Exploration,
Bayer	140.5 + 0.7	18.7E	6.7	Day Nippon Print		<u>'3</u>	18	1 1.6	Ampol Petroleum.
Baver.Hypo	288	28.12	4.9	Fuil Photo	516	-1	15	1.5	Assoc Minerals
Bayer, Verennatik.	327	18	2.7	Hitachi	231	i—1	12	2.6	Assoc. Pulp Paper Sl
Citalat Selwiti	142	- :	_	Houds Motors			: 18	1.7	Assoc. Con. Industries
Commerzhank	288,5;0.5	26,56	11.7	House Foot	1,170	ļ	35	1.5	Aust. Foundation Invest-
Coat Gummi,			_	C. Itohlto Yokado	240	-3	12	2.5	A.N.J.
Daimler Benz		28.12	4.5	Ito-Yokado	1.790	i-30	. <b>30</b>	0.8	Audimeo
Degussa	258.5 -2.5	17	3.3	Jacca	682	+1	15	1.0	Aust Oll & Gas
Demag		11	4.2	d_1,L	2,940		: _	I —	Bamboo Creek Gold
Deutsche Bank	299.6+1.1	28.12	4.7	Kansai Elect Pw.	1,190	÷10	: 10	4.2	Blue Metal Ind
Dresduer Bank	242.2 -0.3	28.12	5.9	Komateu		<u>-1</u>	18	2.8	Bougainville Copper
Dyckerholi Zemt.	194.9		2.4	hubota			15 :	2.7	Brambles Industries
Gutebotinung	217.5 ÷ 2.5			Kyoto-Cemmic		+ 10	35	0.5	Broken Hill Proprietary
				Matsushita Ind!		:_3 .	20	1.4	BH South
Hapag Lloyd	119.0 0.3			Mitsubishi Bank,		_ĭ	10	1.8	Cariton United Brewery
Harnener	168			Mitsubishi Resvy			12	4.8	COLUMN OR DISEASE.
Hoechst	134.5 +0.7			Mitsubishi Com.		_i i	13	1.5	CSR (\$1)
Hoesch	49.5 -0.3	9.63	4.0	Mitsul & Co	308	_i !	14	2.3	Cockburn Cement
Horten	159.5°+2 152.5°+2.5			Mitsukoshi	570	I	201	1.8	Coles (G. J.)
Kali uno Salz			4.6 3.6	Nippon Deneo			1	0.5	Container (\$1)
Karstadt	236.5 + 0.5			Aippon Shinpan	725	+8	12	0.8	Consider Chairman
Kickner DM 100.	54.7.—0.4			Airean Missons I	732	_ā	16	11	Conzine Rictinto
FHD	180.5 + 1.5		5.2	Pioneer	1.590	10	48	1.5	Duniop Knober (\$1)
Lrubo	104		_	Samyo Biectric	242		12	2,5	Recor.
Linde		25	4.7	Sekusui Pretab	975 ;	+15	3U	1.5	Skler-\mirli
Lowenbrau 100	1.590		7.9	shizeido	1,140		ĽŲ,	0.9	Endeavour Resources
Luifbense	107.8 - 2.7			2007.	1.530 :	+10	40 l	1.3	K./. Industrias
		-		Laisho Marine	231	1 :	11	2.4	Gen. Property Trust
ALAN	205.5 + 0.5		2.9	Lakeda Chemical.	411	<b>11</b> j	15 '	1.8	Hamersley
Mannesmann	177.5 + 2.0 247 -1		4.B	fDK	2,090 ,		30 ;	0.7	Hooker
Metalige	247 —1 600 ;+2	10 ( 18 (	2.0	lenna	115	_1 ,	10 :	4.8	IUI Australia
laternum	162 :+1	1	5	louvo Marine		<u>.</u>	11 i	1.1	Inter-Copper
Preusag DM 100.	136 -1	'	_	ickyo Bleet Powr"		+20		3.6	Jennings Industries
libern West, Riec.	179.5-0.5	25	<u>=                                    </u>	tol yo sanyo		+2		1.8	Jones (David)
Schering	270.5 + 1.0			Loray		+5		3.4	Lennard Oil
Siemens,	290.8 +0.3		2.8	Loshiba Corp	135			3.7	Metais Exploration
oud Zucker			6.2	Loyota Motor	854	+4	20		MIN Holdings
Chyssen A.G	120 -0.5		7.2						Nyer Kaparium
Veria	191.5 - 1.0		3.7	Source Nikk	D Securi	ues, To	жур	. 1	News
v KBA	129.3 - 1.4	12 :	4.6						Nicholas International
Verein- & West Bk		18	3.1	BRUSSELS/LUX	YEMRO	1100			North Broken B'dinge (50c)
Volkewagen	255 -2	25	4.9	J: (3) (4) / (4) /	- CITE	-UNG		- 1	Usibridge
						l ſ	Live	1	Uli Search

## BRUSSELS/LUXEMBOURG

•	I					4		l	( Div.	l
ŀ	1					Aug. 30	Price	<b>*</b> ~~	1	Yid.
	AMSTERDAM					l		<u></u>		<u> </u>
	~ DILEDAN					Artel	2.495	+15		l –
•		Price	+00	Div.	Yot.	Bekert "B"	{ <b>2,18</b> 5	, . ,		5.3
	Aug. 30	Fls.	Ī-	*	ી જ	C.B.R. Cement		ļ	100	8.2
,	. — i		├	·[	<del>-</del>	Cockerti	470	<b>_4</b>	. —	1 — i
ŀ	Abota (F).2.1	113.8	} <u>-</u>	. 28	4.9	FRR2	2,290	<u>.</u>		7.8
ŀ	Akzo (F130)		-0.9		<u> </u>	Electrobell	6,800	í		6.3
	Algern Bak (Fl. 100)	375±	·	. A 255	7.6	Fairique Ast	2,820	<b></b>		6.0
	A NEV (FI.10)	89.0	+0.2	. 30	5.7	B. Inno-Bn	2,295		150	6.4
	Amirotank (Ft.20)	80.9#	<u>-6.1</u>	1.2255	5.5	Gevnert	1.314	-26		6.5
	Bijenkurt	100.3	_U.Z	26	5.2	GBL (Brux L)			164	
•	Buhrm Tetterode	130.3	-0.2	024	6.3	lotercon		_5 _6	170	6.7
	Elsevier V (FLE.)	314		275					142	8.1
•	Bright V. Bearer	143					7,050	<u>6</u> 0 ∶		4.1
	Enr ComTattF1.10	68.82		04.5	5.1	La Boyale Belge.	0.030	+50	-226	5.4
•	Gistal Brocades 71	43.5	-0.5	20	4.5	Pau Holding	Z,93U	+5	\$2.55 180	4.5
	He'nesen (F) 26)	107.8	_0.5	14	13.0	on Gen Banque.	3,030 2 050	+5	100	6.7
•	Hoosovena (FL20)		-0.2		_	Soc Gen Bergique			140	6.8
8	Hunter D. PLIM	95.1	-0.4	12	_	Mina			216	6.5
i	K.L.M. (F1,100),	154.5	_1.6	1 2	5.2	DOIVAY	2.450		1210	8,5
	int. Muller (120).	50.0	-0.5	19	7.6	Lartion Sie.L			17.	6.6
	Naarden (Fl. 16)	36.0	~0.3	i 18.5	3.5	LCB	1.100		- 1	I
	Nat. Ned Ins(FLIU;	109.1			4.4	Un Minichilo	772	4	50!	6.5
	NeriCred BL:F1.20		-0.5		6.8	Vieille Montague		<b>40</b>	i — )	
_		210	+0.5	22	5.2		- ' -		<del>-</del>	I
_	Uce (F1,20)	175,5			4.1					- 1
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1	Van Ommeren	150.0		_		STRILLERLAIT				1
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ı	Pharps (Fr.10)		-0.2	17	5.9	Aug. 30	Fra	T	4	1,50
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1	Kobero (F1,50)	177	-0.5	A266	7.2				i	- 1
1	Holiner (F).501	142	_0.5	="		Aluminium	1.170	10 Í	8	3.4
1	Korento (FLO)	123.9		£9.3	3.8	RBC .Y		_5 i	10	3.01
1	RevailDutch(F) 23	134.5				Clin Geigy Fr. 100		<u>2</u> 5	22	2.1
ı	olavenburg	259.0				Do. Part Cert.	785	+5 i	22	8.8
1	Meventiro (Fr.20)		÷ī"¦		4.5	Dr. Reg	569	ļī ]	22	3.9
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ı.	Uzniever (Fr.20)	126.7				Kieetrowstt	1.935		10	
ı	Viking Residi£h		-0.5			Fischer (Vevice).		_6		4.0
r	Westl, Utr. Ryphic	391.5	_3.0	33	4.1	Holiman Pt Certs.	65,500			
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Ш						Do. (Small)	C20.0		110	1.7

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						Credit Com. Free	120	<b>1</b>	12	10.0
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9.3 9.7 9.7 3.2 8.5 9.0 9.0 7.7 2.9 6.5	subser Ct (Fr10), swissair (F,50) świss link (F,100) swiss (ke) (Fr250) Union Bank Zurich Ins	305 820 823 4,850 3,230 11,700	+25 -10 -50	14 13 10 40 20 44	4.6 4.8 2.1 3.1 1.9	Aug. 30 Aug. 3	Price k.rone 210 145 90.0 127 67.5 115 120 227 144	+ or -0.5 +1 +4 +2	Div. kr. 5.6 5 5 5 5 10 6.5	2.5.56 4.7 5.5.6 4.4 4.4
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9.3 9.7 9.7 3.2 8.5 9.0 9.0 7.7 2.9 6.5	subser Ct (Fr10).  swissair (Fr20).  Swiss Bris (Fr20)  twiss (ke) (Fr250)  Union Bank  Zurich Ins.  Aug. 30  ANIU	305 820 383 4,850 3,230 11,700 Price Lire 105,25 639 2,038 1,640,5	+ 25 -10 -50 -50	14 10 40 20 44 Div. Lire	4.6 4.8 2.6 2.1 3.1 1.9	Aug. 30  Aug. 30  Aug. 30  Aug. 30  Aug. 30  Aug. 4v/Kr.50  Asta Lave B/Kr50  Asta Kr.50  Asta Kr.50  Asta Kr.50  Asta Kr.50  Asta Kr.50  Salare aug. 4v/Kr50  Energy aug. 5v/Kr50  Energy aug. 5v/Kr5	Price k.rone 910 145 90.0 127 67.5 115 190 227 144 142 502 100	+ or -0.5 +1 +4 +2 +1	Div. kr. 5.6 5 5 5 5 10 6.5 5 9.6	2.6 5.5 4.7 5.5 4.4 4.4 4.4
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2 9.3 2 7.4 3 9.7 2 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 4.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	subser Ct (Fr10), swissair (F,20) Swiss Bris (F,100) swiss (Re) (Fr250) Union Bank Zurich Ins  MILAN  Aug. 30  ANIC	305 820 383 4,850 3,250 11,700 11,700 Price Lire 105,25 639 1,640,5 175,5 18,800 329 36,500 179	+25 -10 -50 -50 -23 +73 +84.5 +330 +7 +300 +9	14 13 10 40 20 44 44 Lire 150 150	4.6 4.3 2.1 3.1 1.9 - 7.4 9.2 - 4.4	Aug. 30  Aug	Price knone 210 145 90.0 127 67.5 115 190 227 144 142 100 61.5 887 115 67 257	+ or -0.5 +1 +4 +2 +1 +1 -1.0	Div. kr. 5.6 5 6 4 4 5.75 10 6.5 9.6 4 16 9 5.75	25.56 2.56 2
9.3 9.7 9.7 9.7 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	subset Ct (Fr10).  swissit (Fr,00).  Swiss Birk (F,100).  buss (Ret (Fr,250))  tunen Bank.  Zurich Ins.  Aug. 30  AMILAN  Aug. 30  AMIL.  Bastogri Frat  Do, Prov.  Vinnider.  Italiader.  Italiader.  Montection.  Jonetti Prov.	305 820 383 4,850 3,250 3,250 11,700 Price Lire 105,25 639 2,038 1,640.8 173.8 13,800 329 36,300 179 1,156	+25 -10 -50 -50 -23 +73 +74-5 +3-5 +3-5 +3-6 +7 +3-9 +7 +3-9 +7 +3-9 +16	14 13 40 20 44 44 Lire 150 150	4.5 4.5 2.1 1.9 Y-0.2 1 - 7.4 2.4 4 - 3.4	Aug. 30  Aug	Price knose 910 145 90.0 127 67.5 115 190 61.5 302 100 61.5 587 1567 75	+ or 	Div. kr. b.6 5 5 5 9.6 4 9 4 5 7 5 4 9 4 5 7 5 4 4 5 7 5 6 5 6 4 6 9 6 7 5 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25.56 2.556
9.3 9.7 9.7 3.2 9.7 9.7 2.9 9.7 2.9 9.7 2.9 9.7 8.5 9.7 8.5 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subser Ct (Fr10).  swissair (Fr20).  Swiss Bris (Fr20).  twiss (ke) (Fr250).  Union Bank  Aug. 30  ANIC  Bastogr  Fist  Do, Priv  Finider  Indonesian  Louetts Priv  Jediobanca  Louetts Priv  Prefit & Co.	305 820 383 4,850 3,250 3,250 11,700 Price Lire 105,25 639 2,038 1,640,5 173,5 13,800 329 35,300 179 1,156 1,718	+25 -10 -50 -50 -23 +73 +54.5 +3.5 +3.5 +3.50 +7 9 +16 +10	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 3	Price knone 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 67 75 177	+ or -0.5 +1 +4 +2 +1 +1 -1.0	Div. kr. 5.6 5 5 5 10 6.5 5 9.6 4 16 8 5.75 4.8	16 25.56.79 25.56.79 25.56.79 25.56.79 25.56.79 25.56.79 25.56.79 25.56.79
9.3 9.7 9.7 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	subset Ct (Fr10).  swissif (Fr,50).  Swiss Bok (F,100).  bwiss (Ref (Fr250))  buss Hank  Lunch Ins.  Aug. 30  Alu.  Bastogi  Fist  Do, Priv.  Vinider  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Onwett Priv.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -50 -50 -73 +73 +54.5 +33.0 +7 +33.0 +7 +33.0 +9 +10 +9	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.5 4.5 2.1 1.9 Y-0.2 1 - 7.4 2.4 4 - 3.4	Aug. 30 Aug. 3	Price k.mae   910   145   145   145   156   156   156   157   156   157	+ or -0.5 +1 +4 +2 +1 +1 +5 +1	Div. kr. 5.6 5 6 4 5.75 9.6 4 16 8 5.75 4.5 8 5	25.56 2.556
9.3 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subser Ct (Fr10).  swissair (Fr20).  Swiss Bris (Fr20).  twiss (ke) (Fr250).  Union Bank  Aug. 30  ANIC  Bastogr  Fist  Do, Priv  Finider  Indonesian  Louetts Priv  Jediobanca  Louetts Priv  Prefit & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -23 +73 +54.5 +3.5 +3.5 +3.50 +7 9 +16 +10	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. Aug. Selection Aska LavaBirkito) Aska (Kr.50) Aska (Kr.50) Aska (Kr.50) Aug. 30 A	22.7 Price knose 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67,7 75,0 61.0	+ or -0.5 +1 +4 +2 +1 +1 +5 +1 +2	Div. kr. 5.75 5 5.75 10 5.5 5.75 4.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	115 25.56.7 2.56.7 2.
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9.3 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subset Ct (Fr10).  swissif (Fr,50).  Swiss Bok (F,100).  bwiss (Ref (Fr250))  buss Hank  Lunch Ins.  Aug. 30  Alu.  Bastogi  Fist  Do, Priv.  Vinider  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Onwett Priv.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -50 -50 -73 +73 +54.5 +33.0 +7 +33.0 +7 +33.0 +9 +10 +9	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. Aug. Selection Aska LavaBirkito) Aska (Kr.50) Aska (Kr.50) Aska (Kr.50) Aug. 30 A	22.7 Price knose 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67,7 75,0 61.0	+ or -0.5 +1 +4 +2 +1 +1 +5 +1 +2	Div. kr. 5.75 5 5.75 10 5.5 5.75 4.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	115 25.56.7 2.56.7 2.
9.3 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subset Ct (Fr10).  swissif (Fr,50).  Swiss Bok (F,100).  bwiss (Ref (Fr250))  buss Hank  Lunch Ins.  Aug. 30  Alu.  Bastogi  Fist  Do, Priv.  Vinider  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Onwett Priv.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -50 -50 -73 +73 +54.5 +33.0 +7 +33.0 +7 +33.0 +9 +10 +9	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. Aug. Selection Aska LavaBirkito) Aska (Kr.50) Aska (Kr.50) Aska (Kr.50) Aug. 30 A	22.7 Price knose 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67,7 75,0 61.0	+.or 	Div. kr. 5.75 5 5.75 10 5.5 5.75 4.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	115 25.56.7 2.56.7 2.
9.3 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subset Ct (Fr10).  swissif (Fr,50).  Swiss Bok (F,100).  bwiss (Ref (Fr250))  buss Hank  Lunch Ins.  Aug. 30  Alu.  Bastogi  Fist  Do, Priv.  Vinider  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Onwett Priv.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -50 -50 -73 +73 +54.5 +33.0 +7 +33.0 +7 +33.0 +9 +10 +9	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. Aug. Boo. Boo. Boo. Boo. Boo. Boo. Boo. Boo	22.7 Price knose 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67,7 75,0 61.0	+ or -0.5 +1 +4 +2 +1 +1 +5 +1 +2	Div. kr. 5.75 5 5.75 10 5.5 5.75 4.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	115 25.56.7 2.56.7 2.
9.3 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	subset Ct (Fr10).  swissif (Fr,50).  Swiss Bok (F,100).  bwiss (Ref (Fr250))  buss Hank  Lunch Ins.  Aug. 30  Alu.  Bastogi  Fist  Do, Priv.  Vinider  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Ilatogment  Onwett Priv.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.  Pirelli & Co.	305 820 3483 4,850 11,700 11,700 11,700 105,25 639 2,058 1,640,5 175,5 13,800 329 36,300 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,79	+25 -10 -50 -50 -50 -50 -73 +73 +54.5 +33.0 +7 +33.0 +7 +33.0 +9 +10 +9	14 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.6 4.8 2.1 2.1 1.9 Yul. 2 7.4 3.4 3.4 3.4	Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. 30 Aug. Aug. Boo. Boo. Boo. Boo. Boo. Boo. Boo. Boo	22.7 Price knose 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67,7 75,0 61.0	+.or 	Div. kr. 5.75 5 5.75 10 5.5 5.75 4.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	115 25.56.7 2.56.7 2.
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	2 5.2 6 4.1 7 5.9 7 7.2 3 3.8 7.9 7.9 7.1 4.5 5.1 6.8 7.9 7.1 4.5 5.1 6.8 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7 5.9 Aug. 30  6 7.2  3 8 BBC 'A'	2   5.2   6.9   SWITZERLAND   6   4.1   5.9   Aug. 30   Fra.   7.2   5.9   BBU 'A'   1.010   1.035   7.5   7.9   Clin Geigy Fr. 100   1.035   7.5   7.9   Clin Geigy Fr. 100   1.035   7.5   7.5   1	7 5.9 Aug. 30 Fra. — 56 7.2  3 5.8 BHG A	2   5.2   6.9   SWITZERLAND   9   1   1   1   1   1   1   1   1   1	2 5.2 5 6.9 6.9 7.2 Aug. 30 Frs ** * * * * * * * * * * * * * * * * *	SWITZERLAND	SWITZERLAND	SWITZERLAND   SWITZERLAND	SWITZERLAND

#### 8.5 3:9 0.2 9.0 MILAN 12 | 2.9 12 | 6.5

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8a !	3.6	onus Visense.
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## NEW YORK-DOW JOHES

	Ang. Aug 30 29										
		:.		. !	•			15	iid	Since U	om p
				Aug.	A) 12.	24	213	High	Low	Нук	, le
a	Industrial	888.72	880.2D	834.58	885,58	197.55	887.00				
5	H'ane Frade	69.02	89.15	89,21	88.08	18.38	68.97		\$6.73		(2.7
-	Ttansport	248.27	247.76	248.78	252.08	258,41	261.66	44.11 285.01 (24.8)	(11,7) 185.51 971)		15.
	Utilitier	106,45	106.16	186.09	106.38	106.45	106.65	140.98	192.84		10.
l	Trading voi. 000°s†	67.75 <b>0</b>	55,780	81,780	56.190	88,600	29,710	• -			! -
	* Haste o	finde	chang	ed from	Augu	at 34				· · · · ·	
			ļ A	ug. 28	A	ıg. 18	Aug.	11   (	Year ago	rhitu	
٠	190.41	r, y1881			5.36	5	.24	5.26	, .	4.25	i

#### STANDARD AND POORS

-				1 1978	Stoce Compilat s
ı	Aug. Aug. 1 50   29	38 35	24 25	High Low	High Jaw
1	: Industrials 114.63 114.81 9Composite [185.47 165.58		· •	: (2745)   16/51 ! 106.08   86.90	154.84 8.52 (11/1//3) (30.6,52) 125.85 4.40 (11/1,63) (1.6.53)
	ini div. yield g	Aug 73	Aug. 16	Aog. 9 1	car ago (approx.)
7	Ind. P/E Ratio	10.02	9.99	9.97	9.90

O man can't measure to The more A regelal tout dishinate its restination.	The company sam it come not ex. Tokyo Stock Exchange index was				
9 per cent previously. The move \$121m damages suit against the	plain the stock's activity. Among up 0.99 at 422.84. up to 15 prenings.		Aug 23 Aug. 16	Aug. 8 Yes	r ezu isbburri
9 per cent previously. The move sizim damages suit against the came sooner than expected but had been widely discounted.  National Airlines tumbled 531	INMET TOOK OF TO STORE OF THE S	mi div. Field C	4,69 4.70	4.70	4.57
The market was under pressure to \$341. Texas International Air Canadian share prices closed in the morning from the early said it now holds about 18 per group in busy trading. Banks	shares. Great Lakes Paper put other public works shares gained shares. Great Lakes Paper put on expectations that the Govern- Share prices closed mostly in the Salary prices closed mostly in	nd. P/E Ratio	10.02 9.99	9.97	9.90
prime rate move and from Tues. cent of National's Common and declined slightly but other major day's report of a widening of the U.S. trade deficit in July, but barman allowed by the Civil Property of the parameter of the civil Property of the parameter of the	shares. Great Lakes Paper put on expectations that the Govern- on \$1; to \$35 and B. C. Forest \$1; on expectations that the Govern- to \$18. Closing volume totalled reflationary measures to ensure Street and the weakness of the 4,494,190 shares against 4,127,734 Japan's 7 per cent economic dollar Royal Dutch and Alco led	ong Gov. Bond yield	8.57 8.54	8.52	7.61
cain hunters and some short-cover- Aeronautics Board. Texas Air, on Industrials: up 1.74 at 187.49 in intelligent prices in the Afternoon, the American Exchange, eased 25 Montreal. The Comoposite Index	shares on Tuesday. growth target for 1978. Export- declines among Dutch Inter-	, y.s.e. all common	1978		ug. 29 Aug. 28
Reserve Board member, said in- flation could be in the 8 per cent range this year and might rise further, leading to some investor turnover. Canadian Cellulose at \$89; and	Blarkets were mixed with closed higher after recouping where weak shares included interest centring on firmer Banks initial losses following the yen's Elsevier, VMF-Stork, OCE-Van and Uraniums.  The Bank of fresh appreciation in Tokyo, Grinten and Dell. Shippings and Stoel Phormacouting Companies Transports were morely former.	30 29 29 25 H <sub>10</sub> 58.48 58.38 58.78 58.22 58.2 (24)	th Low Higgs	dus — !	551 469 974 : 1,114 587 535 — 109
nervourseness later in the sesion. Communications Satellite sad B. C. Forest Products at \$18 Some buyers may also have dropped \$3\(^2\) to \$44\(^1\). A Federal rose \$1 Macmillan Bloedel at \$22\(^1\) moved to the sidelines late in the Appeals Court overturned Gov- and Abitibi at \$16\(^2\) gained \(^1\) while	CBA 3 cents to A\$2.53, Among higher. the announcement of results. Pakhoed, too, was firm.	IUNTREAL Ang	- Aug. Aug. Aug. 25	1 196	law
NEW YORK   1 Aug.   Aug.   Aug.   Aug.   Aug.	Paris    Aug.   Aug.   The market remained weak   Milan	Constrined 205.6	49 196.75 197.29 199.7 51 204.44 206.10 208.1	7] 201,94 (19,6) 8 209,92 (18,6)	162.90 (16.2) 170.82 (30.1)
Aug. Aug. Aug. Shock 50 29 Shock 50 29 Shock 50	Aug. Stock So 29 with the bourse index 0.7 lower Prices closed generally higher —	ORONTO Composite 1215	i.7 7.208.9 1217.8 1258.		98.2 (30/1)

ì	MUNTREAL	A		A	i	14	ile.
		A11g. 30	Aug.	-Aug. 25	Aug. 25	High	12100
	Industrial Contined			197.29 206.10		201,94 (18/8) 208,82 (18/8)	162.90 (16.2) 170.82 (30.1)
֡	TORONTO Composite	1215.7	7.208.9	1217.8	1250.2	1238.4 (18/6)	988.2 (30/l)
i	JOHANNESBURG Gold Industrial	254.9 282.5	245.9 -262.4	244.7 261.8	245,4 263,6	272,0 (14/8) 254.5 (23/8)	183,0 (2.04) 194,9 (15,5)
I	Aug. Pre	197	75 <u>1</u> 87	# .		Aug.   Pre-	1973   1978

JOHANNESBURG Gold Industrial	254.9 245.9 282.5 282.4	
Aug. Pre	ly7s 1978 a High Low	Aug.   Pre.   1973   1978   30   vious   High   Lave
Australia(%) 558.59 537.7		
Belgium (1) 98.25 98.6	(14) 1 (14) 1 (14) 1 (14) 1 (14)	Sweden (et 396.98 395.03 408.08 525.74
Denmark (** 97.95 , 97.86	(1446 (6/2)	Switzerl'd(/ 287.6   288.4   656.99   279.0
France (†1) 75.7 74.0	1 76.5 41.6 (3.8) (3.2)	
Germany (†† 830.0   820.0		Commerciale Italiana 1973. a Tokyo
Holland (%) 91.7   93.3	82.9 76.0	c Closed. d Madrid SE 30/12/77. e Stock-
Hong Kong 678.56 664.5	(38,6) (4,4) 1 680.12 386.44	Corporation, a Unavailable.
Table Common Services	(16R) (Jail)	·

As eq us	Holland (%) 91.7 Hong Kong 678.56	(38,6) (4 664.51 680.12 386 (16,6) (16	0 Closed. 4 Madrid SE 39/12/77. e Stock- 4) bolm Industrial 1//38. 1 Swiss Bank 44 Corporation, a Unavailable.
n-	Italy (ii) 56.63		46
als.	Japan (o) 422.54		M ALEDNEDAL S WELLE STOCKS
٠.		: (£iv/2: (4,	
	Singapore   402.11	405.69 405.69 205	O Stocks Closus on
_	(6)	(29/8) (5	) traded price day
			— Kamada Inva1,672,900 121 — 1
CS,	indices and base (	dates (al) base va	
ter	100 except NYSE	All Common-	.50 Del Webb 425,000 541 + 3
Cal	Standards and Poo	es - 10 and Tors	nto Bally Moirg 477,200 66 121
no.	3001,000, the last o	amed based on 15	3), K Mart 482,789 271 + 1
	r Excluding bonds.		
	# 400 Industrials, 48		
	and 20 Transport, 1		
eď. I	# Relgian SE 31/19/8	Conembagen	STR Fast Airline 353.600 141 -

100 except NYSE Standards and Poors 200-1,000, the less cal v Excluding bonds, 400 industrials, 40 is and 20 Transport, 15 Belgian SE 31/19/53, 171/73, †† Paris Bours bank Dec., 1933, 35 A	s — 10 and Timed based on 2480 Indus Utilities 48 Fi Sydney All Ord — Copenham r 1961 ## Corp	oronio 1973), Arrais. Mahoe Mary. eo SE Merz.	K Mart Aliek Air National Airim Holiday Tuns Fast Airline	477, 482, 429, 68 45 373,	200 60 760 271 960 121 13,700 341 460 251 600 141	+3 +91 + 1 + 3 - 3 +31
AUSTRALIA		·	OSLO			
Aug. 30	Aust. 8	+-	Aug. 30	Price Kroner	+ or Div	·Yĥi.
ACMILOS centra	+0.70	!	Berreso Hank	900		<u> </u>

PARIS

Bouygues..... d.o.N. Gervais..

Carretour U.G.E... U.I.T. Alcatel...

8	+-	Aug. 30	Price Kroner	+ 05	Div.	ľ
5		Bergeo Bank Berregaard Creditbank	114		11	!   •   •
5 5 5 5	+0.05	Koungs Kreditkassen NorskHydro KreC Storebrand	109.0 222.50	+ 2.5 4.75 2.5	11	
2 3 ·	+0.01	BRAZIL				<u>-</u> -
5 6 6 7	-0.81	Aug. 30	Price Crus	) <del>+</del> ur	Uru.	3
	-8.01 +8.02	Accelta OP Banco do Brazil Banco Ita U PN	1.36	-0.81 -0.82 +0.82	. 16.	8
3	+0.03 +0.03 +0.03	Beigo Minetra OP Lojas Amer. OP Petrobras PP Pireth	3.58 2.44	+ 0.83 + 0.04 + 0.62	20. 20. 3.1a	6. 5. 5.

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†1.91		04000 Mac ( PA   1.38 /-	O.82 J.	5 76
†8.08	-0.04	DETECTABLE   1.25		ut. 6.4
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	+0.81	Pireli 1.53	0.62.1	1+ W
11.35	70.01		0.05	49.7 C
12.16			0.170	)
t3.55	-0.03		0.01	1 2
12.50	۱ - ۱			
		Turnover: Cr 130,3m. V	ohome (	9.7m
	-0.92	Source: Rio de Jane	iro SE	
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<del>1</del> 2.30	-0.05	150St Driefozitein	11.75	∓ų. +α.
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	+0.02	Harmony	7.30	-1·8.0 -1•0.1
10.15	} {	KINTOSS	£ 0=	+8.:
11.17		Kloof	11.10	+0.:
†1.10 <sub>-</sub>	(	NURRERBURG Planima	1 70	+0.,
	H0.04	St. Reletta	76.00	
	+0.01	DURINGUE!	10 00	+0.4
12.40	-0.02	Gold Fields S.A.	42.00	+0.
	+0.03	Union Corporation	5.43	+0.3
	+0.05	De Beers Deferred	- 10	+0.
10.84	1	Blyvooruitzicht	4 46	+0.0
†1_35	-9.05	CASE KAIM PTV	. 410	+0.1
†1.85	0.03	Free State Geduld	77.00	+0.
. 10.14	i I	Provident Drame	45.00	+3.0

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'In the meantime, howeve

the proposals put forward by the Commission of the EEC are un-

likely to provide any substantial alleviation from the problems of

instability and it seems that the Community is a long way from insulating itself from the poten-

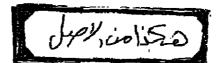
tial disruptive effects of

French maincrop potato market.

The report, which was spon sored by the Potato Marketing

Board, is published at a time when the ultimate Common

Market weapon—action in th



#### Locust threat in Ethiopia

GENEVA, August 29.

SWARMS of locusts are threaten-

food shortages for nearly 2m people in Ethiopia especially in Western Wollo province, now affects all eight districts of Tigray province and three dis tricts of Gondar province. Reuter

#### U.S. palm oil imports fall

WASHINGTON, August 30.

219.7m lbs, compared with 333.4m have had a series of meetings the market.

1bs in the comparable period a in recent weeks, and Mr. Weller But a meeting of the authority whites.

1claimed there was general sup-decided such action was port for the hen culling option. premature.

# Kill hens to save egg trade, say farmers

Brighter hopes for British wool

poultry committee, said egg pro-ducers should be compensated that if all interested parties were with a payment of 30p for every bird killed.

However, Mr. Weller insisted that if all interested parties were to back the plan and the industry itself bore the cost, there was a

U.S. IMPORTS of palm oil during July fell to 19.1m lbs from 26.4m in June and were down from 35.0m in July 1977, census bureau figures show.

The bulk of the July imports came from Malaysia (19.0m lbs).

Other suppliers were Canada and Liberia.

In the first seven months of 1978 palm oil imports were 219.7m lbs. compared with 33.4m oil imports were 219.7m lbs. compared with 33.4m oil imports were that the slaughter of 500,000 old last the slaughter of 500,000 old last week were granted on 45,000 tonnes of meetings the market.

The cost of culling 2.5m hens would be about £500,000, he said. Compared with the industry's current losses of £2m to £2.5m a week this was "chickenfeed."

A culling scheme was first proposed in June, when Mr. Denis were approaching the age posed in June, when Mr. Denis when they would start laying Cummings, chief executive of and "in no time we would be that the slaughter of 500,000 old lender today, reports Reuter.

Egg industry representatives hens would restore balance to have bad a series of meetings the market.

By Our Own Correspondent CALCUTTA, August 30.

**Bumper jute** 

crop brings

price slump

Ethiopian provinces already affected by drought, the League of Red Cross Societies said here.

The Desert Locust Control Organisation for East Africa is trying to combat the swarms with aerial spraying but is handischeme to kill off 2.5m surplus blessed by the Government and said flying conditions.

The drought causing severe food shortages for macril 2.5m.

Appealing for East Agrica is in the growing areas (North Bengal, Assam and Bihar) their market.

The evidence to support this view is published at length in a report, released yesterday, which can only strengthen the British Covernment's resolve to insulate the UK market as far as possible from the unwelcome disruptive pressures which plague the Continuation of Rs. 225.

The drought causing severe food shortages for macril 2.5m.

Appealing for East Agrica is insulate the UK market as far as possible from the unwelcome disruptive pressures which plague the Continuation of Rs. 225.

There were fears that by the According to Wast Banaria.

day next week.

There were fears that by the According to West Bengal's Fraud, the author declares, is Appealing for action yester-time all the proper channels had day, Mr. Mike Weller, chairman been negotiated the crisis would prices ruling in most of the grow-be out of control.

RS.225.

According to West Bengal's Fraud, the author declares, is dimister of Agriculture the commonplace among those in prices ruling in most of the grow-brance charged with supplying ling areas in West Bengal (which marketing and statistical day). ing areas in West Bengal (which marketing and statistical data, grows more than 50 per cent of Other vital market information

were granted on 45,000 tonnes of

THE British Wool Marketing agreement with the Government countries. So while we welcome Roard paid out £2.36m last year runs out in 1980

Bard paid out 2.26m last year to keep British farmers returns to the Board's quite happy arrunning we shall be no further having paid back marked reverpting that was due to the France returns of ower Fin in the special account, after having paid back every fittle, possibly actinist, out of our reserves to support our word regular everything that was due to the France returns our word our word reserves to aspect to managing director, which shapp the word guarantee the special serves were to make the special serves to support to serve the special serves to support to support to serve the special serves to support to serve the special serves to support to support to serve the special serves to support to support to serve the special serves the special serves to support to

# Anarchy in French potato market

THE DIFFICULTIES faced by no heavy investments in it is own potential may well. So the final resolution of the British potato growers pale machinery or storage at risk, have been seriously shaken." difficulties facing the potato almost to insignificance when And although the private The author is quick to draw sector in France must await the compared with the hazards con-wholesale trade is "portrayed as the comparison between the improvements in the agricultural fronting French farmers and the having few virtues, being circultural dismal failure of producer group-industry as a whole begin organisations set up to put an cuitous and costly, as well as ings to reduce the disorder in engineered by the French to the anarchy ruling in exploiting farmers" it is still the French market and the pro-

docens should be compensated with a payment of 30p for every to back the plan and the industry itself bore he eost, there was a good chance that the seleven Ra.12d and Ra.14d a few the plan and the industry itself bore he eost, there was a good chance that the seleven Ra.12d and post to cope by the egg industry as a whole. A special levy could be no operation by the beginning of October.

Egg producers have been oblicated on every laying chick sold. Other proposals before the Dising money for more than five main marketing and advisory organisation, saclande a plan to sell of the end of the main underlying fault of the was companisation, allowed a plan to sell of the shops.

This would reduce the glut of eggs depressing the retail market and push up prices in the shops.

EXPORTS

But Mr. Weller said it would need to the root of the sweet approaching the age where Many processors.

The June Corporation of India, a fact, of interest among of a lack of interest among of a lack of interest among of a lack of interest among potato cropperative and similar groups have governing potatoes.

The June Corporation of India, which is to make price support to many growers and merchants.

The June Corporation of India, which is to make price support to many growers and merchants.

The June Corporation of India, which is to make price support to many growers and merchants.

The June Corporation of India, which is to make price support to many growers and merchants.

The June Corporation of India, which is to make price support to many growers and merchants.

The June Corporation of India, which is to make price support and similar groups have governing potatoes.

The June Corporation of India, which is to make price support and similar groups have governing potatoes.

The June Corporation of India, which is to make price support and similar groups have governing potatoes.

The June Corporation of India, which is to make price support and similar groups have governing potatoes.

The the main underlying fault to many growers and

THE POTATO Marketing Board yesterday urged all growers in Britain to take up its offer to buy 10 per cent of their crops. Reluctant farmers were warned that the Board might not be able to raise market prices fully to the

"Much will depend on the size of any surplus and on the

outcome of the pending case in the European court regarding the import ban in the UK," the board sald in its weekly market

short of the guaranteed level. Lowest price recorded is £20 2

guaranteed level over the

the Indian crop) are now is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of Justice—is between Rs.125 and Rs.140 a of a lack of interest among potato crop.

many growers and merchants.

Government-backed co-opera- Common Market organisation tractable British Government and simple potato growers and merchants.

Market prices have steadied a little this week, although supplies are still adequate, and average returns are still well

tonne and the highest £43.50.

# U.S. farmers attack futures trading

286.941 tons, and there are indications that when the crop closes in a few weeks this will have reached 300,000 tons.

Production so far represents a contracts for future delivery of Mr. William Hathaway, both the commodity — the practice because in the commodity — the practice because it is a significant to have the commodity — the commodity — the practice because it is a significant to have the commodity — the commodity — the practice because it is a significant to have the commodity of the commodity can professional the commodity of the commodity can profession the commodity can profession the commodity can profession the commodity of the commodity can profession the commodity

resources." He said the Board note of caution. "We cannot coming oack into sheep will one and special light grade and gardered for the Commodity farmers tend to trade futures from occording to the future still had more than f4.5m to really detect any sustained set those leaving the register varising grade alloyed with lead futures. Trading Commission, more than smaller ones, one The publication notes that in oil over copra exports to conmeet any future deficiencies upturn in the economies of the because of farm amalgamation and aluminium 36.25 cents.

Before the present financial world's major wool-consuming and other causes.

Reuter

Commodity farmers tend to trade futures from the Commodity farmers tend to trade futures from the Commodity farmers tend to trade futures.

Futures Trading Commission, more than smaller ones, one The publication notes that in oil over copra exports to conmeet any futures deficiencies upturn in the economies of the because of farm amalgamation and aluminium 36.25 cents.

Reuter

did not buy or sell any futures believe participation in futures smaller domestic production this Reuter

Much of the controversy buyers and sellers, analysts add, centres on the role of specula- Without speculators, prices tors, for whom growers use such might be more volatile, some say, terms as "big-city, fast-buck AP-Dow Jones

The maximum export rebate was cut to 25,640 units of account per 100 kilos from 25,649 units futures trading in their principal product. "We should get back to marketing potatoes rather than playing around with paper," one farmer declared.

286,941 tons, and there are indications that when the crop closes in a few weeks this will have the massless against price the massless bandid, only 39.7 per cent traded acreage, education and income. Some analysts say potato acreage, education and income. Some analysts say potato acreage, education and income. Some analysts say potato futures product. "We should get back the majority of farmers who the majority of farmers who than playing around with paper," trade futures aren't hedging but speculating. Mr. Helmuth says. The latest effort to have the controversy to the controversy

# BASE METALS sood covering. This trend was reversed rise to Es.888 in the morning rungs with in the afternoon, however, as stop-loss a feature of trading being the absence selling on Conex caused the price here of the usual hedge selling. The firmness to fall to 1754. Presh baying emerged extended into the afternoon with forward at this level sod forward metal liked to metal finish 18,700 on the late kerb. Univer up to 173 on the pre-market and 1847 before easing back to close at Turnover 1,530 tonnes. COPPER: A.M. Allows Ambiguages. Ambiguages.

I.G. Index Limited 01-351 3466. 3 1 29 Lamont Road, London SW10 0HS. 3 months copper 742.5 to 749.0 Tax-free trading on commodity futures.
 The commodity futures market for the smaller investor.

#### UNION CORPORATION LIMITED SHARE PURCHASE SCHEME

**COMPANY NOTICE** 

NOTICE IS HEREBY GIVEN that a General Meeting of members of the Corporation will be held on the Ground Floor. Union Corporation Building, 74/78 Marshall Street, Johannesburg on Thursday 14th September 1978 at 9.30 a.m. for the purpose of considering and if deemed fit. of parts of which have been without modification the Ordinary resolution full details of which have been

Wholders of share warrants to bester are advised that copies of the ument posted to the registered shareholders are available from the office the London Socretaries. Details of the procedure to be followed should holder of share warrants to hearer detire to attend in person or by proxy to vote at the general meeting are obtainable from any of the undermentioned resease.

Lloyds Bank International (France) Limited 43 Boulovard des Capucines Credit 5uis 43 Booleva Paris 2(e) Paradeplatz 8 8021 Zurick Banque de l'Indochino et de Suez . 96 Boulevard Haussmann 96 Boulevard Hausmanna
Paris 8(e)
London Secretaries
Union Corporation (U.K.) United
Princes House
95 Gresham Street
London, ECZY 785

per pro UNION CORPORATION (U.K.) LIMITED London Secretaries 1. W. HUMPHRIES 30th August. 1978

## **European-American COMMODITIES CONFERENCE**

October 2 and 3, 1978, London Hilton An essential conference for all who use, regulate, effect and are affected by commodity markets world-wide-food processors, farmers, brokers, bankers and traders.

This is a unique opportunity to hear experts, advise on

#### current trends, forecast significant developments and provide critical analyses of the U.S. and European markets. The conference is structured by New York University and the Chicago Board of Trade to encourage maximum participation from and discussion between delegates and speakers. Course fee: \$US 310 (including V.A.T.). For further details complete this coupon and return to the Company Address Telephone New York University School of Continuing Education Division of Career and Professional Development 34 Stanford Road, London W8-5PZ: Tel: 01-937 3163

GRAINS

COMPON FUTURES (CAFTA)—The market opened top higher on wheat and brings upport to the afternoon eased the intervenient of the first highly to close 10-20 up, ach reported.

WOOL FIFTY INC.

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1.05 Turnover 375 1170; lots of 10.003 31 at 10.003 11 at Yertertay's + or 

S AND PRICES

OF THE ALROY IN the course care with the course of the course course of the course of

#### Israel stops sugar subsidy TEL AVIV. August 30.

ISRAEL MAY have to increase its imports of sugar as a result of a Government decision to stop subsidising local sugar refiners which hitherto received

# Strong finish by cocoa;

NEW YORK, August 20.
COCOA Haished strong on aggressive
Commission Rouse and Chartes; buying,
Precious metals closed steady on confinued speculative buying on renewed

Aug. 50 Aug 29 Month en Year age 1458.0 1460.9 1421.5 | 1485.9 DOW JONES Dos An . Anc. Month Year hund 30 28 490 490

Nat ... 374.71 370.97 355.39 568.90 Cuture 576.50 365.89 348.43,324.84 (Average 1974-32-6=10) MOODY'S Moody's 30 29 825 4 8

# U.S. Markets

# copper falls

Commission Rouse and Chartis, buying, Precious metals closed steady on continued speculative buying in renewed lears of accelerating inflation. Copper-closed fower on continued speculative buying and renewed lears of accelerating inflation. Copper-closed fower on continued speculative buildance and stop-loss selling. Soyabean stutures and grains closed higher, backet reported.

Cocos—Scint. 138.10 (1153.25), Dec. 136.70 (132.10), March 153.25, May 150.79, July 148.40, Sept. 146.10, Dec. 143.51, Sales: 1286 [ols.]

Coffee—C C Contract: Sept. 150.50 (136.71), March 136.20-129.30, May 135.30, July 135.30-131.50, Sept. 130.00-123.00, Dec. 125.00-130.00, Sales: 9.5 [ols. Copper—Sept. 62.63 (Gl.45), Oct. 62.40 (sl.15), Nav. 63.95, Dec. 64.50, Jul. 65.00, March 66.00, May 66.85, July 67.73, Sept. 66.60, Dec. 89.55, Jun. 89.85, Salarch 70.70, Sales: 9.00 [ols. Copper—Sept. 62.63 (Gl.45), Oct. 62.40 (sl.15), Dec. 63.70-63.73 (Gl.12), March 67.70, May 68.85, Dec. 63.60-65.80, July 65.35-66.60, Oct. 63.50-65.65, Dec. 63.60-65.80, Salars; 5.430 [ols. 63.00], April 21.90, June 221.20, Aug. 221.50, Oct. 227.90, Dec. 231.40, Feb. 234.90, April 234.90, June 234.90, Sales: \$1.800 [ols. 74.800], April 238.40, June 234.90 [ols. 24.758], April 24.758 [ols. 24.75

23.9. Det. 27.30, Dec. 231.40, Fab. 33.90, April 228.40, June 231.90. Sales: 19.000 lat.

\*\*Read-Chicago loose not available.

NY prime steam 27.82 traded (27.75 traded).

\*\*Phalaze-Sept. 2151-2151 (214)1, Dec. 231.221, May 240.40, Sept. 232, [Platinum—Oct. 241.9-22.30] (263.60).

\*\*June 263.60-164.30 263.50 April 286.50, June 274.40-274.60, April 277.20-277.50, Jun. 274.60, April 277.20-277.50, Jun. 274.40-274.60, April 277.20-275.61.50, Jun. 274.40-274.60, Jun. 274.40-275.60, March 173.30-172.50, May 274.40, Jun. 274.40-275. May 274.40, Jun. 274.40-275. May 274.40, Jun. 274.40-275. May 274.40, Jun. 274.40-275. May 274.40, Jun. 275.50, March 173.20-275. May 274.40, Jun. 275.50, Jun

Tin-584.00-604.90 mans. 1585.00-600.00

COCOA

| Mar. 96.65 | 1-3.18 | March | Sept. 11.18 | March | Sept. 11.58 | March | Sept. 11.58 | March | Sept. 11.58 | March | Sept. 11.59 | March | Sept.

# STOCK EXCHANGE REPORT

# Golds enliven otherwise drab session in stock markets Short Gilts lose ½—Equity share index down 2.8 at 503.0

Account Dealing Dates
Option

First Declara- Last Account Dealings 10ars
Dealings tions Dealings Day
Aug. 21 Aug. 31 Sep. 1 Sep. 22
Aug. 21 Sep. 1 Sep. 12
Sep. 14 Sep. 15 Sep. 25
Wrightson bardened 3 to 1840
A recovery in South African
Gold shares in line with sharply sharing sector. Fraser Ausbacher, entering the return to 'profit market', yesterday. Equities ability, hardened a fraction to at 1470
Wrightson bardined 5 to 1850
A recovery in South African Gold shares in line with sharply sharing sector. Fraser Ausbacher, entering the return to 'profit market' yesterday. Equities ability, hardened a fraction to at 1870
Wrightson bardined 3 to 1850
A recovery in South African South African Gold shares are line with sharply sharing sector. Fraser Ausbacher, entering the return to 'profit market gesterday. Equities ability, hardened a fraction to at 1870
Wrightson bardined 3 to 1850
A recovery in South African Gold shares and the first of the provided some relief in dull stock reflecting the return to 'profit market gesterday. Equities ability, hardened a fraction to at 1870
Wrightson bardened 3 to 1850
A recovery in South African Gold shares and the first of the group's joint television venture group's joint televisi

can interest rates.

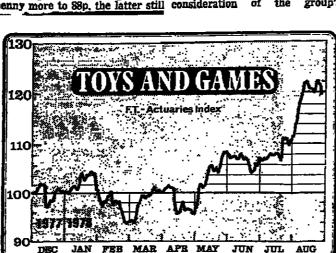
The absence of any positive news regarding the Government's election intentions enabled leading sector provided some relief

the longer end of the market

news regarding the Government's election intentions enabled leading industrials to regain a little composure. As soon as the demand, most of which represented bear-closing, was satisfied, however, fresh small sales from the public led to a return of the previous day's uncertainty.

Highly satisfactory third-quarter figures from BOC International, a net 2 higher at 69p, momentarily steadied the market but after the official close quotations were drifting lower again. The FT Industrial Ordinary share index, after being 0.8 up at the first calculation, was 2.8 down at the final count of 503.0.

News of increased U.S. Prime rates confirmed earlier worries about short-term interest rate levels in that country and British Funds reacted accordingly. The shorter maturities especially began to look susceptible and few funds appeared to be available to counter the offerings which eventually brought falls extending to 1. Support was also lacking at the longer end of the market where loses ranged to 1.



helped by favourable comment growth potential lifted Ricardo 4 pings how Weir, on the other hand, gave up more to 302p. ICL touched 388p ing leve 3 to 125p in reaction to the disc on an investment recommendate changed.

tracts, while Land Securities and cons Gold were close behind, recording 114 and 112 deals price of 10p.

Pearl disappoint

The disappointing interim figures prompted a fall of 12 to 252p in Pearl and served to undermine sentiment in other Insurances. Ahead of nest Wednesday's half-yearly results. Sun Alliance dipped 10 to 366p, while numerous losses of dipped 10 to 366p, while General day 13p, closed at 14p compared with the issue of 10p.

Against the quietly dull trend of the other miscellaneous International Apprentice Competition which is being held this year in Korea.

Competitors from 16 countries announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeable losses, ancouncement that talks have lengthy list of sizeable losses, ancouncement that talks have lengthy list of sizeable losses, ancouncement that talks have lengthy list of sizeable losses, and around 4 included Berec, 159p, Reed Paper, Reed International to 162p, after plastering, automobile engineer.

Accident gave up 6 to 226p as did tronic 124p. Thorn Electrical shed tronic 124p. Thorn Electrical shed tronic 125p. Rank Organisation, at 280p, ing and ladies' hairdressing.

BOC better

Against the quietly dull trend of the other miscellaneous International day to take part in the 24th Mulliams Apprentices left London yester day to take part in the 24th of the other miscellaneous International Apprentice Competition which is being held this year in Korea.

Competitors from 16 countries announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeable losses, announcement that talks have lengthy list of sizeabl

appointing first-half profits, while tion but then reacted to close a Peter Brotherhood came on offer net penny off at 385p. Grovebell at 126p, down 4.

Accident gave up 6 to 226p as did tronic 124p. Thorn Electrical shed 163p. Rank Organisation, at 280p, ing and ladies' hairdressing.

Cooper Basin natural gas fields of highest levels. Southern Australia prompted The bullion price added \$1.625 firmness in Burmah Oil which to \$206.375 per ounce. firmness in Burmah Oil which to \$206.375 per ounce. touched 80p before settling at 79p for a rise of 3 on the day.

Revived speculative demand ing and jumped 113 to £941, while pushed Siebens (UK) 24 higher to 382p, but Oil Exploration, down 4 at 206p, encountered profit taking following the encouraging results from its latest appraisal well on block 16/17 in the North Sea.

nowever, responded to speculative overnight Sydney and Melbourne interest with a rise of 2 to 7½n.

Apart from Isle of Man Steam Packet, 10 cheaper at 145p, Shippings hovered around the opening levels and closed little a from 145 p. 145 p.

Golds sharply higher

Among Textiles, John Haggas bridge fell 6 to 157p.

MEWSBABERS (1) PROPERTY (3)

YESTERI	JA.	Ľ	
British Funds	Up	0ewn 68	San
Corpus., Dom. and Foreign Bonds	2 153	15 514	4
Industrials	33 6	258 26	22°
Plantation	62	8 27	ž
Recent issues	4	ű	2

## FINANCIAL TIMES STOCK INDICES

<del>-</del> i	30	29	35	24	24	22	agu
Government box	70.42	70.63	70.66	70.65	70.66	70.68	70.89
Placed Interest	72.25	72.42	72.42	72.40	72.63	72.55	70.78
Industrial Ordinary		605.8	613.4	509.3	519.£	523.8	500.9
Gold Mine	181.6	173.6	175.9	177.3	175.2	182.4	111.9
Ord Div. Yight	5.31				5,15		
Kernings, Y"ki2(full)(")	15.85	15.75	15,54	15,85	15.58	15.51	14.72
P/K Ratio (net)(*()	8.36	8.41	8.53	8.38	8.64	8.68	9.82
Dealings marked	4,736					5.727	
Equity memorer fin	<u> </u>	74.07	64.53	79,24	98.02	106.87	85.82
Equity bargains total		14,757	15,530	18.386	21,827	20.505	16,533

Lanest today 11.265 2006.

\* Rayed on Si nor cont corporation tal. † Nel=8.16.

Basis 100 Gove, Sees, 15/10:20. Fried Int. 1928. Inst. Ord. 1/7/35. Gold Mines 12.9-55. SE Activity July-Dec. 1942.

Н	IGHS	AND	TOM	5	S.E. A	CTIV	ITY
		978	Stare Co	mpiletium	<u>;</u>	Aug.	AHS.
_	High	Low	High	- Caper	<u> </u>	26	A#9.
Gort, Secs	78.58 (3/1)	68.79 (2/6)	127.4 (9/1/36)	. 49, 18 (3:1,75)	— Daily Gut-Edged Industries		145.a 157.3
Fixed lak	81.27 (9)1)	70,73 (6/ñ)	150.4 (35/11:47)	50.53 (3)1/16)	Speculative Trans	107.6	51,7 99,0
int, Ordani	525.2 (22/3)	488.4 (2/3)	649.2 (148/17)	48.4 (26,74,40)	Gult hages	136.7 196.5	135.2 205.2
Gold Mines.	206.6 (14.8)	130.3 (5.1)	442.3	43,5 (26,10,71)	Speculative		38.1 122.5

well on block 16/17 in the North
Sea.

Investment Trusts made another
drab showing with capital issues
particularly depressed. Dualvest
fell 5 to 224p, while Triplevest,
156p, and M and G, 120, lost 3
apiece. New Throgmorton were
also on offer the warrants falling 420p; a large selling order
losing 6 to 137p. Young Company's Investment Trust warrants,
however, responded to speculative
interest with a rise of 2 to 7½p.

Apart from Isle of Man Steam
Packet, 10 cheaper at 145p, Ship-

#### LONDON TRADED OPTIONS

<u> </u>			·			·		
(Iption	kiz reise price	Ckeins offer	Vol	Closing offer	Vol.	Ch-size ulfer	Vot.	Squity rieso
RP	750	144	20	164				886
BP :	800	94	! ===	124	l	140		
gp .	850	50	7	89	i	105		i ".
Br .	900	26	8	54	11	79		·
BP	950	10	i ē	55		52		i . <u></u> .
Com. Union		16	<u> </u>	18		24		151p
Com, Union	160	312	26	9	4	1312	***	·
Com. Union	180	1 1	۰.	; 4	• •	- 6		٠ ـ ـ ـ ـ ـ
Creek Gold	160	35	54	35	10	41	_	190p
Cons.Coki	180	19	9	22	13	39	•	
Consultation	200	6l2 ;	!	1212	17	: 19 :	9	. Y .
Courtaulds	100	171	• 4	19	2	•	-	114p
Courtantis	110 i	912	6 i	12	-:	15		
L'ourtaulde	120	4 -	15 .	7	_1	101⊵	-	i
Courteulde .	130	154 !	- i	4	20	واظ	-	
16 EC	220	85 i		91	_			304p
GEC	240	65 i	- :	71		76		
GEO	260	45 i	i	55 '	-	63		
GEC	280	27	15	40	-	46	4	' <b>.</b> .
GEC !	300 l	14 j	12	27	1	33	4	
GEC	330	412	23	1313		20		
Grand Met.	100	15	11	1812		1912		115p
Grand Met.	110	21ē	_6	101g	8	13	-: !	! pa
Grand Met.	120	_3	46	7	4	812	5	398p
ICI	330	75	3	74		75		- dage
ICI -	360	43	11	43 [	23	50		
ici	390	19	23	28	3	20	15	. •
ici	420	_6 ¦	41	17	- 1	61		233p
Land Secr.	180	54	35	56 39		43	•-	
Lami Set.	200 ;	35 161 <sub>2</sub>	35 15	25	- :	28 :		
Land Sees.	220 240		35 !	11:0	33	17		
Land Sees.	60	5 i		27	33 1	.28	_	. E5v
Marks & Sp.	70	171-	3D	1712		1912	7	1
Marke & Sp. Marke & Sp.	80	812	9	ģ		12	5	. "
Marks & Sp.	90 !	3 1	18	5	13	7	7.	
Shell	500	86		87		102 i		579pt
ibell :	550	39	4	49		68	_ '	1 2135
hell	600	15	- i :	26		39	_	
Totals		i	457	!	τ5 178		48	: " 1
<u> </u>								

### FT-ACTUARIES SHARE INDICES

#### LONDON UNITED

TAVISTNINIS IID.

#### **INTERIM RESULTS**

	Six months	Six months	Year to
	to 30 June, 78	to30June,77	31 Dec.,77
	2'000 <b>3</b>	£000's	£000's
Turnover	_8,055	6,930	<u> 16,718</u>
Operating profit:			
Insurance	1,756	1,273	3,279
Other	80	173	546
	1,836	1,446	3,825
Group overheads	224	210	347
Profit before taxation and			
extraordinary items	1,612	1,236	3,478
Taxation	804	614	1,929
	808	622	1,549
Extraordinary items less			
transfers from reserves	1	12	118
Profit available for distribution	807	610	1,431
Cost of dividend	01.6	100	260
Cost of dividend	214	180	360

An interim dividend of 2.5p net per share (1977-2.10298p) will be paid on 19 October, 1978 to shareholders on the register as at 20 September, 1978.

> Copies of the Interim Report may be obtained from The Secretary, 20/21 Red Lion Court, London EC4A 3ED.

## LEADERS AND LAGGARDS

Gold Mines F.T. ...... Goods (Durable) Gre

1.33	All-Share Index	_	20
L.73	Consumer Goods (Non-Darable) Group	1	7
	CANDOTTEL COOMS (1/00-DULSOES) CLASS	Ŧ	
	Stores	+	7.1
1.39	Food Manufacturing	+	7.0
2.07	Oils	+	6.4
.55	Pharmaceutical Products	÷	70
137	(Stining Sales (1986)	Ŧ	
	Instrance Brakers	*	5.9
	Property	+	5.8
.37	Insurance (Life)	+	5.4
.26	Textiles	+	5.0
.13	Merchant Banks	÷	4.4
.11	Food Retailing	Ξ	43
3	Entertainment and Catering	Ŧ	
2	Enterteiniudet auf Fassite """	Ŧ	26
	Brendries	+	1.2
LŞ.	Financial Group	+	1.2
<b>.91</b>	Household Goods	+	8.3
3.57	Alte Purchase	_	1.2
196	Banks	_	
.91	Insurance (Composite)	_	24
.48	Aleman Delete	_	-
	Discount Helpits	_	
1.55	Shipping —.,		12.5
1.95			
281	i Perceptage changes based on Tuesday. August	29.	197
77	Indiana		

· .	No.	L SIO					}			
Stock to ICI Audiotrne. 12pcPf. GEC	omina- of	Closing ks price (p)	Change on day  - 2 - 10 + 2 - 2 - 3 - 4 - 1 - 4 - 6	1978 high 414 144 317 290 368 79 926 204 725 166 131 336 602 167 596	1 ld 32 22 22 25 72 16		Fig. 12 3 4 5 6 8 11 12 13			
RECENT ISSUES										
EQUITIES 23										
Issue	71 Cartie 4 Smray 63 Sunti	Stock  s Superiords  ng Petr. Services  (E.) (Jew Ire) 10p	78	4.66	5.1 4. 5.0 8.1 5.0 2.1 5.	7.0	25 26 32 33 34 35 36 37 41 42 43			
FIXED INTEREST STOCKS										
Junio Julio Jacon Ja Jacon Jacon Jacon Jacon Jacon Jacon Jacon Jacon Jacon Jacon Ja	978	Sto	oek		Closing Price &	+ or	46 49 51 59 61			
100 F.P. — 1412 299. F.P. — 29954 F.P. — 100 250 15/12 514 299 29 299 299 299 299 299 299 299 299	Se Birmi 166 Caffyr 169 Caffyr 169 Card 169 Could 169 Could	sronic 122 Convaghan Var Batt is 102 Pref en Var, Batt ke 123 Bed. 138 let 198 li 2 Shetwood y Spring Interior. 102 Cun. Pret Anglia Water 72 Buddings 1032 Partly C Ctt and Zambra I ampton Var. Rai annion Var. Rai ni 102 Cum. Pre ex 104 Cum. Pref pr Parke Bernet I Var. Bate Bed. elyde Var. Kate sworth Variable	d 1925	1983 1983 86-88	9812 9914 6018 98 991 98 100 9914 1311 9913 10019	+12 +12 +12 -16 -18 -12 -12 +18	622 63 64 65 66 67 68 69 70 71 81 91 99			
	RIGHT	S" OFF	ERS				_			
Issue E Rennue.	1978	] }	itoek	-	losing Price	+ 07	Br			
p; <= 9 ■	High Low				का	l	2			

**ACTIVE STOCKS** 

ive	el 를벌   Rez		Late-t Rennue, Date		778	Stock	Closing Price	+•
ı;	44	9		High	Tòa.		का	
<del></del> -	Nill	_ i	1	7p10	- 6na	Asmeson Bus	<b>Бр</b> т	11111
J	Nu.	_ i	- 1	40	33	Bank of Montreal,	34	4
1	F.P.	30/8	24/11			Blackwood Hodgs	70	-
•	34	===				††Kunick Bidgs	ומקצַ11	
į	P.P.		.21,9			Leech (Wm.)	_94	1
	70		27/10		915 Mai	Lex Services	678 bu≀	<b>—</b> 2
	F.P.	3/8			40	Nortun (W. E.)	464	13
	[ F.P. ]	21/8				Property Partnerships	111	
١.	F.P.	28/7			56	Suteliffe Speakman	63	-!
	F.P.	14/8			134	Tecslemit	155	<u>—</u> і
	P.P. F.P.	25/8 18:8				Williams I'm'sks.9.6% CvCm&dPf Yorkshire Chemicals	121 100	-::-

Republication date usually last day for dealing free of stamp duty. O Figure
based on prospectus estimate. c Assumed dividend and yield. a Porecast dividend
cover based on previous rear's carminas Dividend and rick based on prospectu
or other official estimates for 1979. • Gross, I Pigures assumed. : Cover allow
for conversion of shares not now ranking for dividend or ranking only for restricted
dividends. 4 Placing price to public. 12: Pence saless otherwise indicated, 1 (stack
by tender.    Offered to holders of ordinary shares as a "rights." " issue
by way of capitalisation. It Minimum tender price. 🛂 Reintroduced. 🛂 Issued ()
connection with reorganisation merger or take-over. (Ill introduction. 🗀 issue
to former preference bolders. <b>In</b> Allotment letters (or fully-paid). • Provisions
or partly-paid allotment letters. 🖈 With warrants.

	and the Faculty of Actuaries													
1978	_	EQUITY GI		I	W	ed.,	Aug.	30, 19	778	Tues, Aug. 29	Fri. Aug. 25	Thur:		
low 328 13 233 226 296	GROUPS & SUB-SECTIONS  Figures in parentheses show number of stocks per section					Day's Change	Est. Estrings Yield % (Max.) Cosp. Tax \$2%	Yield 4	(Net)	Index No.	Index No.	Index No.	Index No.	Index No.
63 720 163 583 96 109	1 2 3 4 5	CAPITAL GOOD Building Materia Contracting Cons Electricals (14) Engineering Con	us (27) struction stractors (	(27)	241.52 218.73 395.12 521.32 356.10	-0.6 -1.0 -0.7 -0.5 -0.7	15.94 15.93 17.66 13.77 16.91	5.10 5.13 3.76 3.53 5.82	8.62 8.80 8.22 10.09 7.87	242.93 220.94 397.95 524.16 358.46	245.63 222.97 399.81 532.93 362.03	244,45 221,86 498,45 527,63 362,41	225.45 410.66 532.77	181.46 299.39 432.74
240 484 117 476	6 8 11 12	Mechanical Engi Metals and Metal CONSUMER GOO (DURABLE) (52) Lt. Electronics, R	Forming DDS	(15)	193.56 175.95 216.78 265.46	-0.4 -0.3 -1.2 -1.8	17.07 16.00 16.10 14.07	5.60 8.03 4.87 3.84	7.82 8.51 8.64 9.94	194.35 176.46 219.47 270.33	196.40 178.15 223.17 275.10	195.33 178.35 223.50 275.79	180.55 225.52	162.66
	13 14 21 22	Household Good: Motors and Distr CONSUMER GOO (NON-DURABLE Breweries (14)	s (12) ibutors (2 0DS ) (175)	25)	181.18 131.03 217.13 231.44	-0.9 -0.4 -0.9 -0.8	16.37 19.36 15.03 15.00	6.24 6.25 5.55 6.06	8.41 7.17 8.97 9.17	182.83 131.49 219.11 233.23	184,49 133,76 221,15 234,70	184.90 133.70 220.77	185.77 135.48 224.08	177.75 118.51 189.82
Choss Yield P.K. Ratho	23 24 25 26 32	Wines and Spirit Entertainment, O Food Manufactur Food Retailing (I Newspapers, Pul	s (6) Setering ( ring (21) 15) Slishing (	17)	278.16 265.97 213.47 223.32 398.17	-1.6 -0.8 -0.8 -0.5 -0.2	15.32 15.00 17.80 13.61 10.20	5.16 6.49 5.18 4.63 3.17	9.74 9.72 7.42 10.22 13.99	282,75 268,22 215,15 224,54 398,86	286.27 270.16 217.24 225.77	233.65 283.93 269.84 216.63 225.17	288.14 273.09 219.97 229.18	225.97 233.88 189.44 202.17-
4.7 7.0 8.1 6.1 5.4 13.2	33 34 35 36 37	Packaging and Packaging and Packaging and Packaging (40)	aper (15)		147.87 205.49 178.37 256.11	-03 -11 -1,1 -12 -0,4	17.66 10.49 18.42 21.49 18.98	7.19 4.40 7.77 7.32 5.35	7.47 14.00 7.08 5.51 6.16	148.24 207.73 180.33 259.19 119.95	402.12 147.10 218.66 152.73 261.35 121.23	398.96 146.36 218.76 181.65 262.94	147.33 214.40 184.60 266.50	133.96 182.98 167.22 222.96
5.4 13.2	41 42 43 44 45	OTHER GROUPS Chemicals (19) Pharmaceutical I Office Equipmen Shipping (10)	(26) Products	ຕາ	211,90	-0.4 +0.3 -0.2 -2.7 -0.2	15.29 16.75 10.37 16.81 17.44	5.52 5.99 3.68 5.33 7.39	8.54 8.12 11.92 7.04 7.07	212.63 298.19 277.58 146.46 415.35	215.39 303.38 281.73 143.65 421.66	121.68 214.21 300.29 279.77 142.49	217.33 306.45 283.47 143.35	198.83 278.95 0.00 121.65
* + or	46 49 51 59	Miscellaneous (5) INDUSTRIAL GR Oils (5) SOO SHARE INDE FINANCIAL GRO	OUP (495	9	225.37 229.11 506.36 252.40	-0.8 -0.7 -0.4 -0.7 -0.8	16.25 15.40 14.56 15.28	5.93 5.38 3.90 5.17	8.17 8.75 7.45 8.53	227.18 230.77 508.65 254.13	230,35 233,35 517,93 257,23	419.46 230.47 232.62 516.09 256.41	233.47 235.89 523.72 260.04	197.58 263.53 511.42
14pi  9    81 <sub>2</sub>  93 <sub>4</sub>  00 <sub>8</sub>  2   +1 <sub>2</sub>	62 63 64 65 66	Banks(6) Discount Houses Hire Purchase (5) Insurance (Life) ( Insurance (Comp	(10)		193.13 217.82 162.06 145.77	-0.1 -1.2 -1.4	24.21 15.03	5.57 6.06 7.94 5.08 6.25	6.20 8.78	174.57 193.13 217.96 164.06 147.85	176.35 194.43 218.04 167.88 150.30	175.94 191.79 217.62 166.81 151.76	194,09 216.46 168,92	
18 10 +12 18 10 +12 19 4 —18	67 68 69 70	Insurance Broker Merchant Benks ( Property (31) Miscellaneous (7)	's (10) [14]		85.59 255.75 13331	-1.5 -0.1 -0.5 -1.2 -0.8	13.26 · 3.22 22.30	6.53 4.48 5.72 2.94 7.37	10.79 54.44 5.81	134.22 354.36 86.02 258.94 114.21	136.21 358.68 86.36 260.44 114.97	136.69 355.97 86.16 260.17 116.12	138.34 361.55 86.45 263.13	127.77 354.99 70.75 204.66 95.92
18 <sub>11</sub> — I <sub>2</sub> 19 <sub>15</sub> — 04p — I <sub>2</sub> 00p —	71 81 91 99	Investment Trust: Mining Finance ( Overseas Traders ALL-SHARE IND	s (50) 4) ; (19)		232.55 107.86 332.91 232.07	-1.0  +0.1 -0.7	2.99 16.36 16.37	4.44 6.41 6.74 5.26	33.41 7.44 7.65	234.79 107.82 332.59	237.71 167.58 335.42 236.38	239,72 108,32 331,52	240.42 107.91 333.88 238.82	168.67 96.07 281.93
9 14 1 9 14 1 + 18 19 18	-l2 -la							FIXED INT. YIELD Br. Govt. Av. G		erest Os	,	Wed., Aug. 30	Tues. Aug. 29	Year ago (approx.)
	British Government Aug. Change St.				xd as To-di	BY   15	adj. 2 78 izte 3	Coupe	DS _ 1.5	years years		8.84 10.98 11.65	8.74 10.90 11.60	6.45 10.86 11.76

-							$\perp$	<u> </u>	rt. Av. (	2086 Res	<u>.</u>	Aug. 30	Aug. 29	appros.)
-	Bri	tish Government	Wed., Aug. 30	Day's change	xd adi. To-day	ad ad 1978 to dat	1:	1	DE 15	years years		8.54 10.98 11.65	8.74 10.90 11.60	6.45 10.86 11.76
	1 2	Under 5 years 5-15 years	104.53 114.87	-0.29 -0.46	-	6.70 7.00			ns 15	years years		11.68 12.14 12.14	12 19 12 19 12 11	9.86 21.82 12.26
	3 4	Over 15 years	120.68	-0.36 -0.34	-	9,21 8,91		<del></del>	us 15 . · 25	years		11.65 12.64 12.84	11.51 12.58 12.79	16.12 12.98 13.09
I	5	All stocks.	112.76	-0.35	! - !	7.72	110	Irrede	mables.	711 LLL 11 11 11 11 11 11 11 11 11 11 11		11.60	11.58	11.62
				-	Wed. Aug Index   Y No.		Tues. Aug. 23	Friday Aug. 25	Thirt. Aug. 24	Wed. Aug. 23	Tues. Aug. 22	Meta, Aug. El	Friday Aug. 18	Year ag (approx)
15	15 16	20-yr. Red. Deb Investment Tru	st Prefs	i. (15)	57.81 †12 51.27   1		57.82 51.52	T		57.92 51.32	57.82 51.32		e67,79	54.43 51.11
	. 17	Coml. and Indi	Prefs.	(20)	70.75	2.92	70.82	70.82	70.82	70.87	70.82		•	64.91

# OFFSHORE AND

	AUTHORISED UNIT TRUSTS	OFFSHORE AND OVERSEAS FUNDS
bbey in rome - 142 0 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Int. Growth Fd 1272 1352 2.05 MLA Unit Trust Mgempt, Ltd. Prudi. Portfolio Mngrs. Ltd.V (aNbNc) Scot Ex yid. 9 1212 130 lad 576  Do Accum	12 Alexander Fund
Institute   Inst	Putham End, Dorking. 03065055 Friends Prov Un. 46.5 497 - 0.2 3.86 G. Copthall Are. E. C. 2 701.48889 G. Copthall Are. E. C. 2 701.48889 G. Copthall Are. E. C. 2 701.48889 G. C. Unit Managers Lid. 7 National Sec. Plus. 128 54.6 - 0.3 4.18 Constraints Rep. 1445 1445 1445 1445 1445 1445 1445 144	121   122   123   123   124   125
nonne Papda	6 1. Japan & Gen	### outhen ite. 127, Kent St. vidney   Intl. Govt. Sees, Tat. Govt. Sees,
### 134	2.81 dary Ave. EUSA 1859.  (1.32 331   Accum. Unitur   1.67   64.6     6.65   .	72 2. Rue De la Regence B 1000 Rrussels
1 Noble St. ECTV 71A.   01-825 6578.   br. Monthly Fund.   173 0   185 0st   1 002 for   1 002 for .	63:1008 (Antomy) Unit Tst. Mgs. Ltd. Graving Road Bristol. (627:233)  3. Frederick Pl. (Old-lewy, EC. 01-598-411   19.0	Barclays Unicorn Int. (I. O. Man) Ltd.  1Thomas St. Douglas, Jo.M.  0824 4856  1Unicorn Aust Ext. [60 7]  100 Grts. Partill
Capital Fund	Do. Accum Units 1846 1946 1946 1946 1946 1946 1946 1946 19	Bishopsgate Commodity Ser. Ltd. Three quay. Treer intl FAR SEQ. 01425 4588  Bishopsgate Commodity Ser. Ltd. Three quay. Treer intl FAR SEQ. 01425 4588  P.O. Box 42, Douglas, 1 o M. 0824 291. Annir Aug. 29 . SIX15 344  ARMAR "Aug. 7
Growth Fund	Accum Units   242	14.01d Rend N. 1.   2   1.0188 6464
	Fremier UT Admin. 5 Reyleigh Road. Hutton. Perpetual Unit Trust Magnet. (a) International Funds  Breattwood, Essex. (277-217288 48 Hart St., Henley on Thames October 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	10
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Professional	American Fd	Handelskade 24. Willemstad, Curscao  London Agents: Intel, 15 Christopher St., EC2  Tel. 61-247 7343. Telex: 8314666.  NAV per ahare August 25 SUS20.60.  F. & C. Mgmat. Ltd., Inv. Advisers  Schlesinger International Mngt. Ltd.,  12 Laurence Pountney Hill, EC4R OBA.  41, La More Sc., St. Helter, Jersey 0834 73588.
#E.Dredend	AMEY Mgd.Pan. \$77.4   182.5	Coal Fd. Aug. 23   SUSS.27   SA 01   SUSS.27   St. Fd.   SUSS.27   St. Fd.   SUSS.27   St. Fd.   SUSS.27
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No High yield   1855   48.0   7.67   Do Accum Unit. 58.4   59.1   7.67   Do Accum Unit. 58.4   59.1   7.67   Next dealing date Reptember 6   Charities Official Invest. Fide   Thomboo Wall. ECON INR.   01.580 IRIS   Income August 15. 1342 17   6.28   Accum August 15. 1342 17   6.28   Otherstand Only available to Reg. Charities. Chariter house   Invitation	reins unite 1124 197 297 297 297 297 297 297 297 297 297 2	Aschor Gilt Edge 153 80 9.86 12.88 P.O. Box 315, St. Helter, Jersey. 0534-71460 Aschor Ind. Fd 5185 82 5.33 1.77 Commodity Trust_190.13 94 97
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2a Pont Street London SWIN SPJ 01-235 8825. R Cosmopolo Glb Fd [19.0 20.5 a 44 b Dalmonte Fd	Secure Cap. Fd. 98.8   101.9   Money Fund.   141.7   Growth Cap.   127.6   1	Hamilton Fd.   Mgrs. (C.I.)   Ltd.
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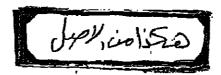
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# FINANCIALTIMES

Thursday August 31 1978



# Waldheim proposes 7,500 Britain agrees **UN** troops for Namibia

BY OUR OWN CORRESPONDENT

UNITED NATIONS, August 30.

UNITED NATIONS Security bankruptcy. Both South Africa permit an accurate assessment of Council members will meet and the South-West Africa the cost of the operation, to be behind closed doors tomorrow to People's Organisation (SWAPO) known as the UN Transition consider how to proceed with want the UN's help, and the UN Assistance Group UNTAG. But behind closed doors tomorrow to People's Organisation (SWAPU) known as the UN transmission of the UN's help, and the UN's help,

# In UN croops would monitor word to get UNTAG under way, in turn, would formulate and the dalso said that any idea of approve a constitution leading to the South African forces prevent infiltration and maintain border para now was out of the question. It would be by far the largest zurveillance, and monitor the parameters and under the congo operation by the UN since it demobilisation of citizen forces (now Zaire) in the 1960s. But are defined also be very different mand structure. Burmah sells Australian The market is now full of peculation that other French spect on name a few-will are the final quarter. Apart from the congo companies—Aquitaine, Michelin, Lafarge to name a few-will always policy can be fear busing policy can be fear always over its infiltration and maintain border para now was out of the question. Framborough air show on the component of the UN since it demobilisation of citizen forces (now Zaire) in the 1960s. But are calling agreement made it mis possible to meet the December 31 to mand structure. The prevent of the Ministry of Economic Affairs on the outcome of the Airbus. The airline hopes to have agreed already on the likely British share of the Airbus. The airline hopes to the Airbus and the congo operation, which brought the UN to the brink of two was also given per mission to buy six British Aerospone to the Bedieve its the final Airbus was also given per mission to buy six British Aerospone to perate the and of the maintain and maintain border is mission to buy six British and the congo one fellowing suit. This salk has left investors a little nervous and prices yesterday. The market is now full of beculation in that other French is prevailed to name a few-will always unvertible to the farm in a move to placate British Aerospone to the maintain and maint gas and oil interests

BY KEVIN DONE IN LONDON AND JAMES FORTH IN SYDNEY

ings in three quoted Australian of the companies engaged in oil and has been open to an offer for gas exploration and production some months, facing the prosing the Cooper Basin, South pect of investments in the Australia. Burmah's interests at Cooper Basin of £5m to £6m over the next three years.

The Bond Corporation is headed by Mr. Allan Bond, a west Australian businessman and yachting personality. He became known internationally for his attempts to win the Americas being bought out by a group the next three years, headed by Bond Corporation

The disposals were necessary ment authority. to help Burmah cope with the financial crisis of 1975.

areas, the company said yester. Industries 5 per cent and Leigh-

Holdings and Endeavour Resources.

Burmah stressed yesterday that the sale was not linked to its programme of selling off major assets, which ended in 1976.

Burmah is selling its 37.5 per cent interest in Santos, its 30.9 per cent interest in Basin Oil NL. and its 67 per cent interest in Reef Oil NL. These interests back into natural resoruces for the Bond Group, which earlier this year acquired tin mining

BURMAH OIL is selling all its By contrast, the sale of the is made up of Bond Corporation remaining oil and as exploration Cooper Basin interests would 50 per cent, Endeavour Resources and production interests in allow funds to be released for 30 per cent, a Bond family com-Australia in a deal worth about investment in other business pany 10 per cent, Amalgamated

ton Mining 5 per cent.

# to join airbus project

buy the 757 early next year ment programme. It may also after Rolls-Royce has been pay a token sum towards the given the expected go-ahead for costs of the earlier Francothe Dash 535 version of the German development of the RB 211 jet engine which would original A300 Airbus.

Britain's Hawker Siddeley now

#### Free choice

which has urged British Aero-space and the Government to back the U.S. aircraft rather

part of British Aerospace, de-signed and manufactured the wings for the A300. It made a

FT Conference, Page 5

# **Euston Square office** let to U.S. group

BY JOHN BRENNAN, PROPERTY CORRESPONDENT

The consortium that has bought out the Burmah interests brought out the Burmah interests

The consortium that has bought out the Burmah interests

The consortium that has bought out the Burmah interests

The consortium that has bought out the Burmah interests

The consortium that has bought out the Burmah interests

The consortium that has bought out the Burmah interests

The grow, advised by White, Miller

The consortium that has bought out the Burmah interests

The grow, advised by White, Miller

The consortium that has bought out the Burmah interests

The grow, advised by White, Miller

The consortium that has bought out the Burmah interests

The grow, advised by White, Miller

The consortium that has bought out the Burmah interests

British Rail's asking rent of four office blocks in the develoption on acquisitions in September, and were up to 46 authorities. At 104pt the blaves agreed to pay just under thought of the building next year. It is likely to ment, and Pension Fund Security at the stand at a prospective place of the E32m move to the building next year.

British Rail, which was represented 25 per return on capital will shortly in the develoption of the group's heavy borrowings represented 25 per return on capital will shortly in the develoption of fund. Sight rental concession until its finance there of the E32m months) plus the purchase of per cent by June following the stand at a prospective place of the E32m move to the building next year.

British Rail, which was represented 25 per return on capital will shortly in the develoption of the group's heavy borrowings represented 25 per return on capital will shortly in the group's heavy borrowings represented 25 per return on capital will shortly in the group's heavy borrowings represented 25 per return on capital will shortly in the group's heavy borrowings represented 25 per return on capital will shortly in the group's heavy borrowings represented 25 per return on capital will shortly in the group's heavy borrowings represented 25 per return on

Continued from Page 1

#### **U.S. bank and BCCI**

blue ink. The credit report con-Kraus' affadavit is a copy of a tained a statement that Bank memoradum dated May 10, 1975, of America should have an from Mr. Alvin Rice, recently-officer present at BCCI at all retired vice-chairman of Bank times.

loan" to its subsidiary Ruwait
International Finance Company ing practices, Mr. Rice concludes
In previous court proceedings, that BCCI 'needs much tighter
KIFCO admitted lending Faisal administrative control in the
Saud Al-Fulaij, a Ruwaiti businessman, \$5m, \$3.5m of which
was used to pay for financial would shortly be filing its own
general stock purchased on his
behalf.

Attached as an exhibit to Mr. made in the affidavit.

Mr. Kraus was also informed Mersman, senior vice-president, that the credit report said that in response to concern about BCCI had made a "substandard BCCI.

loan" to its subsidiary Kuwait After examining BCCI's bank-

#### Weather

S.W. England (64F). N. Eugland, N. Wales, Lakes

Some rain, sunny periods later. Max. 16C (61F). N.E. Scotland, Orkney, Shetland Some rain, sunny intervals. Max. 13C (55F).

Some rain becoming brighter. Max. 14C (57F). Outlook: Dry with sunny periods. Showers in the east.

HOLIDAY RESORTS

THE LEX COLUMN

# The rush to raise equity in Paris

BRITAIN HAS agreed in princi- A Covernment announcement the English Channel in earnest. Index fell 2.8 to 503.0 Airco's fixed assets at replacewould be needed to finance the prediction of predictions of the proposal and exites to the territory, he said.

In a written report to the council today, Dr. Kurt Waldheim's recomposed the disparten to Namibia of Canada, the Western members of the Security Council — on of about 1,200 officials and extra which Dr. Waldheim's recomposition with device and civilian team of the writhdrawal of all but 1,500 South African troops from the territory. This residue would be confined to one or two bases in the northern part of Namibia and constituted and arrange, and control elections and constituted and accountiful to a constituted assembly, which.

Their task would be to main-tain law and order and arrange, and control elections and litaly together.

Their task would be to main-tain law and order and arrange and control elections and litaly together.

Their task would be to main-tain law and order and arrange and control elections and transport to a constitutent assembly, which.

Their task would be to main-tain law and order and arrange and control elections and transport to the project.

Their task would be to main-tain law and order and arrange and control elections and transport to the project approve a constitution leading to the withdrawal and restriction of the days and the withdrawal and restriction of the days would monitor the supervise and control elections approve a constitution leading to the proposals, the South African forces, prevent in the electoral proposation and transport and proposation and transport to the project.

The UN troops would monitor to refugees and exites to the territory, he said.

Prisoners

Under the proposals, the South African forces and exites to ward to the electoral proposation and transport and proposation and extra the territory. In settlement plan the territory, he said.

Prisoners

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Prisoners

Under the proposals, the South African force and exites the proposals,

provided further encourage- tims. The engine is backed by the substantial profit from the ven-National Enterprise Board, the ture without incurring any ment has allowed French profits have risen from under an uninterrupted growth trend Rolls-Royce holding organisation, development costs for the whole citizens to deduct Frs 4.900 of £3.0m to £29.0m and with a in profits turnover assumes development costs for the whole citizens to deduct Frs 4,900 of £3.0m to £29.0m and with a in profits, turnover, earnings

recent rights issue history by BOC International announcing its third rights issue

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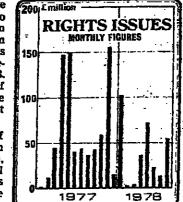
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removed the threat of nationali- gearing does not look unduly bution from the dominant sation which had made such an demanding but BTR is keen to cement division. Forecasts for issue impossible over the continue expanding at a fast the full year centre around preceding two years. The French clip and wants to keep its f18m at the pre-tax level, com-Government's subsequent drive balance sheet flexible enough to pared with £14.8m last time. for a free market economy has accommodate future acquisi- During the past seven years

share purchases each year from 34 per cent rise in profits under and dividentls. In 1970 earntaxable income. It has also its belt at the halfway stage, it ings per share amounted to increased the corporation tax should be heading for £40m. 0.77n; last year the figure was relief on dividends paid on plus in the current year. BTR 10.46p. On only two occasions newly issued shares. French reckons that roughly half of its during the period has the divibankers are now talking about growth is coming from its old dend increase been less than the need for an orderly queue established businesses and the 20 per cent.

The state of the flow of rights issues that roughly half of its dend increase been less than to keep the flow of rights issues rest from acquisitions. So far it.

Dominating the country's has proved for more successful.

Investments

Investments

A year earlier, its disposals and of per cent of shares in British Petroleum.

The disposals were necessary

The disposals were necessary

The disposals were necessary

The disposals were necessary

The cooper Basin supplies letting for many years.

The cooper Basin supplies letting for many years.

The cooper Basin supplies letting for many years.

Fluor (Great Britain). which for many years.

Fluor (Great

this consolidation by taking in ment cost rather than their last U.S. book value which looks to have been of the order of \$140m lower. This has been enough to prevent the gearing. ratio from appearing as 52 per cent or so, but at the same time the group's p and I account is being burdened by. a stiff depreciation charge.

On the trading front BOU IS hoping for an improvement in the UK but it is questionable whether this will show up in the final quarter. Apart from

since the group was formed

Dominating the country's has proved far more successful building materials industry than many other companies in (with a monopoly in cement) Here in Britain BTR has assured a place for itself in recent rights income being rapid organic growth Cement-Roadstone has been one of the prime beneficiaries of Ireland's recent countries. In the current year, for example, the volume of cement

major assets, which ended in Exploration.

The price of the deal is interests in New South Wales and oil interests in the North Sea Last year the profit attribut.

The price of the deal is interests in New South Wales and oil interests in Texas by buying which included the sale of its the end of November next year. Ninian Field and 65 per cent of and 55 in three years to raise £24.1m. The third quarter figures sales is expected to rise by

# Scotland considered for new Texas plant

BY JOHN LLOYD

Rolll Wilmot, managing director had examined sites in Ireland of Texas Instrument's UK sub- and Scotland, and that any plant sidiary, said that there would be set up by the company would be a "significant product announcement" next week.

Election of a Scottish site

ment next week.

The plant would employ around 2.500 people and would attract several grants. Stratheof semiconductor products, including instrumentation equipment. There has been some speculation that the company will expand its migraprocessor. will expand its microprocessor moting a range of selected finan-

rapability in Europe.

The company has examined six possible 25-acre sites in the Strathelyde region in the last two months. Inquiries have been made through the Scottish made through the Scottish Study of computer staff needs, (Development and

TEXAS Instruments, the U.S. Industry) and are the largest it multinational semiconductor has handled for several years. company, plans to set up a major. The sites are in the Kyle, plant in Europe. Central Scotland and the Irish Republic are the most favoured areas.

The sites are in the Kyle, Carrick and Motherwell districts and at East Kilbride, Cumbernauld and Irvine New Towns. the most favoured areas.

The company would not confirm a choice of site yesterday.

The would it say what the plant at Texas's Dallas headquarters, would produce. However, Mr. Said yesterday that the company

The Scottish Office is also pro-

Page 10

Continued from Page 1

## **U.S.** prime rates

out of present options." approach to a prices and in-picked up in London and New comes policy but the difficulties York on the prime-rate news, but of devising a workable system lost some of the improvement

michaet bianden waters. The SwFr 1.6350 the previous day, rise in U.S. bank lending rates It remained below the DM2 level gave modest respite to the dollar at DM 1.9890 compared with after the heavy pressure the DM 1.9910.

In overnight trading in Tokyo, Y189.10 to the dollar against the dollar had fallen sharply in Y189.45.

In owith the slump in Europe in the pound reached \$1.9510 at in Tuesday after the news of the its best, but closed at \$1.9410 for on Tuesday after the news of the its best, but closed at \$1.9410 for U.S. July trade deficit of nearly a fail of 45 points on the day. U.S. July trade deficit of nearly a fail of 45 points on the day. U.S. currency dropped by nearly unchanged at 62.4.

but argued that "We have run Y6, one of the biggest falls in a single day's trading. The Administration is known It opened slightly weaker in to be looking at the taxation European markets yesterday,

of decising a workable system lost some of the improvement are thought to rule it out as an later. The dollar's weighted early option. Government depreciation, calculated at noon spokesmen have indicated that in New York by Morgan a second stage of its anti-infla-Guaranty, widened from 8.9 per tion policy is being prepared cent to 9.2 per cent.

and that wage and price controls are still being ruled out. SwFr 1.6460, compared with Michael Blanden writes: The SwFr 1.6350 the previous day. representatives of the Express

revious day.

The Japanese yen ended at In overnight trading in Tokyo, V189.10 to the dollar against

today on new paper By John Lloyd

PLANS FOR a new national Express Newspapers from its Manchester plant, were being discussed by the Express Board last night. An announcement is expected to be made today. Mr. Derek Jameson, editor of the Daily Express, said yesterday that the proposed paper would be a "Daily Mirror-Sun hybrid," and that it would compete with the

Daily Express. It would aim for a circula-tion of around 2m, and Mr. Jameson said he would keep "a fatherly eye" on its develop-

ment.
The editor is likely to be Mr. Peter Grimsditch, former deputy editor of Reveille magazine. He had been tipped for the job of editor of a new London evening newspaper which the Express group is also investigating.

More than three quarters of

the 170 Daily Express Man-chester editorial staff will be transferred to the new paper, which may be called the Daily Mr. Jameson said that It

would attract northern sales by being able to include late news and late sports results. How-ever, it was intended that it would be a fully national newspaper, "available in Cornwall and the north of Scotland the next morning."

A London editorial office independent of the Express, would handle national political and other news. Today's announcement is likely to follow talks between Mr. Jocelyn Stevens, Express Newspapers' managing director and deputy chairman, and

unions in Manchester.

The new paper will face keen competition from the Sun, which sells more than 4m copies daily and has welladvanced plans to print a Scottish edition in Glasgow. The Glasgow-produced Sun could contain much of the same late sports and other news as the new Express newspaper,

UK TODAY Cloudy, some rain or drizzle RATHER COOL, some rain in the Max. 16C (61F). north, but temperatures near Isle of Man, S.W. Scotland, normal in central and southern Glasgow, Argyll, N. Ireland

areas.

London, S.E. and Cent, S. England E. Anglia, Channel Islands
Dry, sunny spells. Max. 19C
(66F).

Rain or drizzle, becoming dry
with sunny intervals. Max. 17C
(63F).

Borders, Edinburgh Dundee,
Aberdeen, Highlands, Moray Midlands, E. England, S. Wales Sunny intervals, some rain. Max. 19C (66F).

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